KWAZULU-NATAL PROVINCE

EDUCATION
REPUBLIC OF SOUTH AFRICA

PROVINCIAL STANDARDISED ASSESSMENT

GRADE 12

MATHEMATICAL LITERACY P1

JUNE 2026

MARKS: 100

TIME: 2 hours

This question paper consists of 9 pages, and a 16-page Special Answer Book.

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INSTRUCTIONS AND INFORMATION

1. This question paper consists of FOUR questions. Answer ALL the questions.
2. Answer ALL the questions in the SPECIAL ANSWER BOOK provided.
3. You may use an approved calculator (non-programmable and non-graphical), unless stated otherwise.
4. Show ALL calculations clearly.
5. Round off ALL final answers appropriately according to the given context, unless stated otherwise
6. Indicate units of measurement, where applicable.
7. Diagrams are NOT necessarily drawn to scale, unless stated otherwise.
8. Write neatly and legibly.

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QUESTION 1

1.1 A local Shoprite store is advertising discounted prices on a variety of meat products as part of a weekly promotion. The table below shows the cost of selected items and quantity, both excluding and including 15% VAT.

TABLE 1: SHOPRITE SPECIALS ON SELECTED MEAT ITEMS

	Item and Quantity	Amount Excluding 15% VAT	Amount Including 15% VAT
1	Riversmead farm fresh whole chicken per kg	**A**	46,99
2	Rainbow Simply Chicken Viennas 500g	56,51	64,99
3	Beef potjiekos loose serve per kg	78,17	89,90
4	Karoo wors loose per kg	78,17	89,90
5	Grain Field Chickens 2kg	78,25	89,99
6	Beef rib-eye on the bone per kg	130,43	149,99
7	Grain Field Chickens 4,2kg	152,17	174,99
8	Grain Field Chickens 5kg	173,90	199,99
9	Layer Pack Chicken Drumsticks 10kg	600,00	690,00
	TOTAL COST	**1 388,46**	**B**

[Adapted from www.shoprite.co.za]

Use TABLE 1 and the information above to answer the questions that follow.

1.1.1 Write down the acronym of the organisation responsible for collecting Value-Added Tax on behalf of the South African government. (2)

1.1.2 Using the values from Table 1 above, identify the median of the amounts including VAT for all the listed items and quantities. (2)

1.1.3 A customer purchases a 5kg of Grain Field chickens and 1kg of beef rib-eye on the bone. Calculate the total amount payable, including VAT, if the customer makes a cash payment. (2)

1.1.4 State whether the data representing the quantities of items above is discrete or continuous. (2)

1.1.5 Calculate the value of **A**, the price excluding VAT for the Riversmead farm fresh whole chicken per kg. (2)

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1.2 TABLE 2 below gives definition of terminology used in Mathematical Literacy.

TABLE 2: DEFINITIONS OF TERMINOLOGY USED IN MATHEMATICAL LITERACY

LETTER	DEFINITION OR EXPLANATION
A	The range of the middle 50% of the data set.
B	Income that is taxed, after any non-taxable deductions have been subtracted.
C	Total earnings from all sources before any taxes or deductions are removed.
D	A diagram showing different stages in data processing.
E	Banks charge different fee structures for the services they offer.
F	A diagram displaying five number summary of a given data set.
G	The number of times an outcome has occurred.
H	Affected by an outlier or outliers.

Use TABLE 2 above and match the definitions or explanations with the terminology below. Write only the letter (A-H) next to the question numbers (1.2.1 to 1.2.5), e.g., 1.2.5 J

1.2.1 Box-and-whisker plot (2)

1.2.2 Taxable Income (2)

1.2.3 Frequency (2)

1.2.4 Transaction fees (2)

1.2.5 Statistical Cycle (2)

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QUESTION 2

2.1 On 1 April 2026, the price of Diesel 500 ppm increased by R7,37 per litre, while Diesel 50 ppm increased by R7,51 per litre. TABLE 3 below shows the diesel prices on 4 March 2026 and the updated prices on 1 April 2026.

TABLE 3: DIESEL PRICE FOR MARCH 2026 AND APRIL 2026

Brand	Price per litre 4 March 2026	Expected Price per litre 1 April 2026	Percentage Increase
Diesel 500 ppm Coastal	R17,70	R25,07	41,64
Diesel 500 ppm Inland	R18,53	...	39,77
Diesel 50 ppm Coastal	R17,84	R25,35	...
Diesel 50 ppm Inland	R18,60	R26,11	40,38

[Adapted from www.aa.co.za]

Use TABLE 3 and the information above to answer the questions that follow.

2.1.1 Determine the expected price per litre of Diesel 500 ppm Inland on 1 April 2026 after the increase. (2)

2.1.2 Calculate the percentage increase in the price of Diesel 50 ppm Coastal. (4)

2.1.3 Mr Mhlongo drives a Toyota Hilux Legend 55 with a fuel tank capacity of 80 litres. His bakkie uses Diesel 50 ppm, and he states that he will pay R600,80 to fill the tank inland from empty after the expected price increase.

Verify, showing ALL calculations , whether the statement is VALID. (4)

2.2 ANNEXURE A in the ANSWER BOOK shows the budget summary for the 2026/2027 financial year in South Africa, that was presented by the Minister of Finance, Enoch Godongwana, on 25 February 2026.

Use ANNEXURE A and the information above to answer the questions that follow.

2.2.1 The total projected revenue for the 2026/2027 financial year is R2 669,7 billion. Write this amount in words. (2)

2.2.2 Determine, as a unit ratio rounded to the nearest whole number, the amount allocated to Health compared to the total projected revenue stated in Question 2.2.1 in the form 1 : ... (3)

2.2.3 Determine the projected government budget balance for the 2026/2027 financial year by calculating the difference between total projected revenue and total projected expenditure.

State whether it is a surplus or a deficit. (4)

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2.3 Mr Mhlongo is a 67-year-old engineer who earns a basic monthly salary of R67 000. He also receives a taxable monthly allowance of R11 500. A monthly pension deduction of R5 025 is made from his salary. ANNEXURE B in the ANSWER BOOK shows the annual tax rates for the 2026/2027 tax year.

Use ANNEXURE B and the information above to answer the questions that follow.

2.3.1 Determine Mr Mhlongo's total annual pension deduction. (2)

2.3.2 Calculate Mhlongo's annual taxable income. (3)

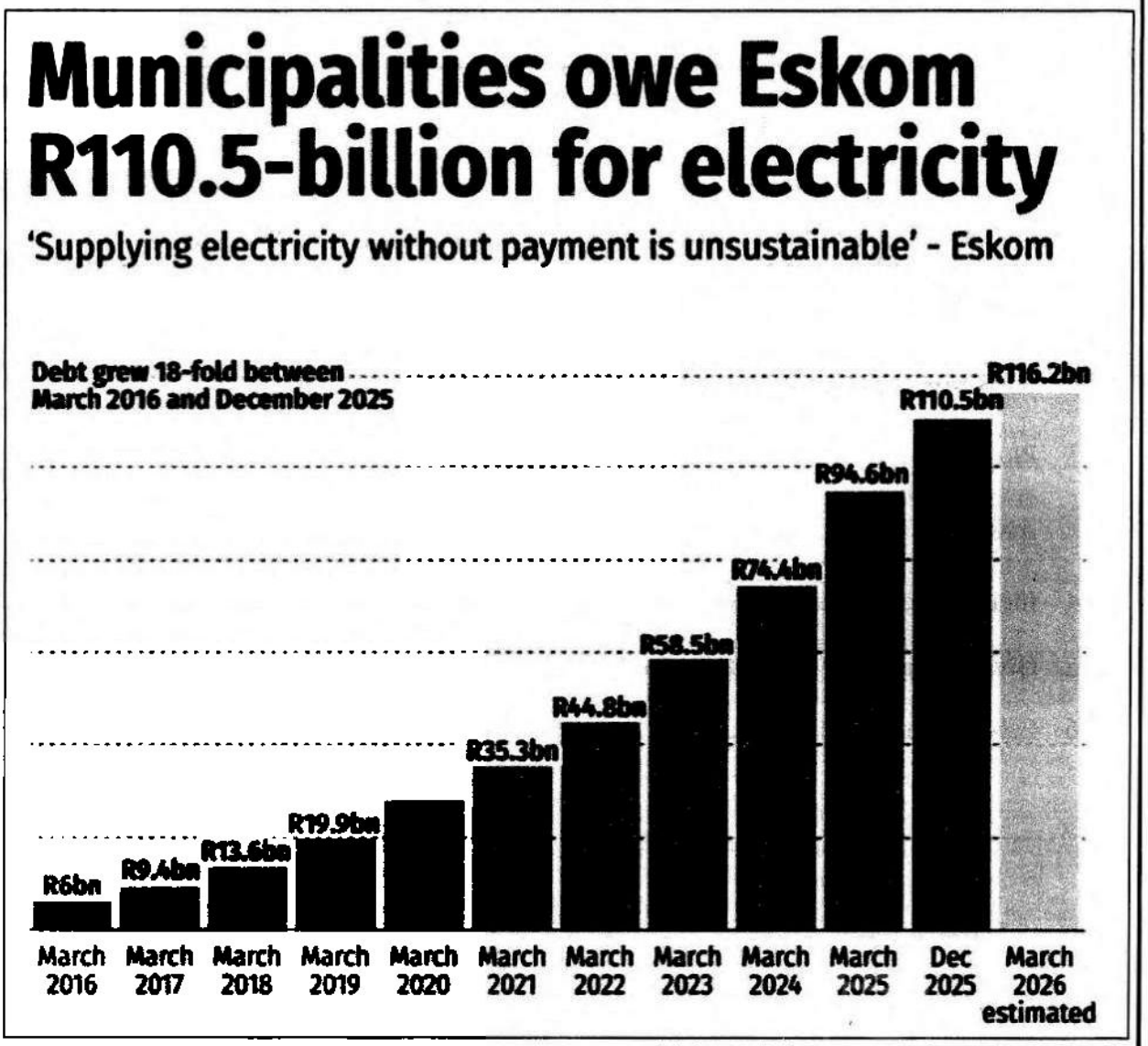
2.3.3 Calculate Mr Mhlongo's monthly income tax payable. (5)

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QUESTION 3

3.1 Eskom is owed billions of rand by municipalities over the period from March 2016 to March 2026. The graph below shows the amount of debt owed to Eskom during this time.



[Adapted from www.theoutlier.co.za]

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

3.1.1 State one disadvantage of the mean. (2)

3.1.2 The mean amount owed by municipalities from March 2016 to March 2025 is R38,45 billion. Calculate the amount owed in March 2020. (4)

3.1.3 Give ONE reason why the amount owed for March 2026 is an estimate. (2)

3.1.4 State the two consecutive years during which the debt showed the greatest increase. (2)

3.1.5 An amount owed is selected at random from the given data for the period March 2016 to March 2026. Determine, as a decimal fraction rounded to FOUR decimal places, the probability that the amount exceeds R50,9 billion. (3)

3.2 Amahle secured a job as a Civil Engineer in the United Kingdom. ANNEXURE C in the ANSWER BOOK shows the prices of 11 different apartments and their distances from the city centre.

Use ANNEXURE C and the information above to answer the questions that follow.

3.2.1 Name the type of graph drawn on ANNEXURE C. (2)

3.2.2 Write down the values that represents the outlier shown on the graph. (2)

3.2.3 Plot the point representing the apartment, which is located 2,7 km from the city centre and has a monthly rental of £380, on the given ANSWER SHEET in the ANSWER BOOK. Label the point X. (2)

3.2.4 Identify the correlation shown on the graph. Provide an explanation for your answer. (4)

3.2.5 Give a reason why apartments closer to the city centre tend to have higher rental prices. (2)

3.2.6 Estimate the monthly rental of an apartment that is 1,4 km from the city centre. (2)

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QUESTION 4

4.1 An increase in the price of Brent crude oil resulted in diesel reaching an all-time high. The price of Brent crude oil increases from R1 045,14 per barrel in February 2026 to R1 847,97 per barrel in April 2026.
South Africa imports approximately 316 000 barrels (50 244 000 ℓ) of Brent crude oil per day.

Use the information above to answer the questions that follow.

4.1.1 Determine the increase in the price of Brent crude oil from February 2026 to April 2026. (2)

4.1.2 Calculate the cost of importing Brent crude oil for two days in April 2026. (3)

4.1.3 A Mathematical Literacy learner claims that the cost of 1 litre of crude oil in April 2026 is half the current diesel price of R23,25 per litre.
Use calculations to verify whether this claim is correct. (7)

4.2 Johannesburg Municipality uses the tariff rates given in TABLE 4 below to charge households for water consumption. The tariff rates below apply to the Reddy household.

TABLE 4: JOHANNESBURG MUNICIPALITY WATER TARIFF RATES (Rands)

BLOCK	CONSUMPTION	2026 (rate/kℓ Excluding 15% VAT)
1.	0kl – 6kl	**Free**
2.	+6kl – 10kl	29,84
3.	+10kl – 15kl	31,15
4.	+15kl – 20kl	43,67
5.	+20kl – 30kl	60,36
6.	+30kl – 40kl	66,01
7.	+40kl – 50kl	83,28
8.	> 50kl	89,24

N.B: Fixed monthly management levy of R65,08 including 15% VAT

[Adapted from www.jra.org.za]

Use TABLE 4 and the information above to answer the questions that follow.

4.2.1 Calculate the total amount payable by the Reddy family for their household water usage of 33 kℓ in February 2026. (6)

4.2.2 The Reddy household paid R1 047,19 (VAT inclusive) for water consumption in March 2025. Determine the number of kilolitres of water used by the household. (6)

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TOTAL MARKS: 100

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