Province of the
EASTERN CAPE
EDUCATION

Iphondo leMpuma Kapa: Isebe leMfundo
Provinsie van die Oos Kaap: Department van Onderwys
Porafensie Ya Kapa Botjahabela: Lefapha la Thuto

NATIONAL SENIOR CERTIFICATE

GRADE 12

SEPTEMBER 2026

MATHEMATICAL LITERACY P1

MARKS: **150**

TIME: **3 hours**

This question paper consists of 11 pages and a SPECIAL ANSWER BOOK of 14 pages.

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INSTRUCTIONS AND INFORMATION

1. This question paper consists of FIVE questions. Answer ALL the questions.
2. Answer ALL the questions ONLY in the SPECIAL ANSWER BOOK.
3. You may use an approved calculator (non-programmable and non-graphical), unless stated otherwise.
4. Show ALL your calculations.
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 ANNEXURE A in the ANSWER BOOK shows a summary of Mrs Peter's car insurance policy.

Use ANNEXURE A to answer the questions that follow.

1.1.1 Write down the policy number of Mrs Peter's policy. (2)

1.1.2 Determine the missing value **A**, the total premium including VAT. (2)

1.1.3 Mrs. Peter's car was hit by a storm. The incident occurred between 22:00 and 06:00. The quotation for the damages from the panel beaters was R18 500.

Determine the amount the insurance company will pay the panel beaters. (2)

1.1.4 Write down the anniversary date of the insurance. (2)

1.2 State whether the following data sets are **categorical, discrete** or **continuous**.

1.2.1 The mass of new born babies in one hospital. (2)

1.2.2 The number of new multiple-choice questions Jerry answered correctly. (2)

1.2.3 The type of transport that Grade 12 learners take to school. (2)

1.3 Table 1 below shows the four-day weather forecast.

TABLE 1: FOUR-DAY WEATHER FORECAST

Day	Saturday	Sunday	Monday	Tuesday
High temperature	21°	30°	21°	21°
Low temperature	12°	15°	13°	14°
Chances of precipitation	80%	95%	10%	5%

Use TABLE 1 to answer the following question.

Identify the day it is most likely to rain. (2)

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1.4 Lina is a young designer. Her sewing machine broke and she shopped around in order to buy a new one. The machine that she purchased cost R6 000,00.

She asked her father for a loan in order to purchase the machine. Her father's offer was as follows: 10% simple interest per annum for 36 months.

Use the information above to answer the following questions.

1.4.1 Calculate how much Lina will pay back to her father, if he wants her to pay back the loan at R216,67 per month. (2)

1.4.2 Calculate the profit Lina's father will make on the loan. (2)

1.5 A store buys a shirt for R200,00 and adds R20,00 for transport, R13,00 for packaging, and R30,00 for overheads.

1.5.1 Determine the total cost of the shirt. (2)

1.5.2 If the store sells the shirt for R350,00, calculate the profit the shop received. (2)

1.5.3 Explain the meaning of the term *profit*. (2)

1.5.4 Write the amount spent on packaging, as a ratio, to the amount spent on overheads. (2)

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QUESTION 2

2.1 Mrs. Nair runs a small business making aprons. She pays R1 000,00 for rent. The material for each apron is R15,00 and she sells her aprons for R65,00 each.

TABLE 2 below shows the break-even analysis of Mrs Nair's business.

TABLE 2: BREAK-EVEN ANALYSIS OF MRS NAIR'S BUSINESS

Number of aprons produced	**0**	**10**	**20**	**30**	**40**	**50**
Fixed costs (Rands)	1 000	1 000	1 000	**A**	1 000	1 000
Variable costs (Rands)	0	150	300	375	600	750
Total costs (Rands)	1 000	1 150	**B**	1 375	1 600	1 750
Income from sales (Rands)	0	650	1 300	1 950	2 600	3 250

Use TABLE 2 above to answer the questions that follow.

2.1.1 Determine the formula for calculating the fixed cost in the form:

Fixed Cost = … (2)

2.1.2 Determine the values of **A** and **B**. (3)

2.1.3 In the ANSWER BOOK, ANNEXURE B, the graph of income from sales is drawn. On the same set of axes, draw the graph for fixed costs and the graph for total costs. (5)

2.1.4 Use your graph in QUESTION 2.1.3 to shade the region where Mrs Nair fails to break-even. (2)

2.2 The exchange rate between South Africa and the United Kingdom on 12 November 2025 is shown below.

GBP to ZAR	
1GBP	22,4436 ZAR

Use the above information to answer the questions that follow.

2.2.1 State whether the rand is weaker or stronger than the British pound. (2)

2.2.2 On 02 November 2025 the exchange rate of the pound (GBP) to the South African rand was 1 GBP/22,683 ZAR.

Determine the difference, in rands, that you would get if you exchanged 1 375 GBP at the rates given above. (6)

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2.3 The price for a 5 kW solar panel system was R110 000,00 in June 2024. The price of the same item was R124 000,00 in June 2025.

2.3.1 Write down the word used to describe the price change on a year-to-year basis. (2)

2.3.2 Calculate the percentage price change on a year-to-year basis on the solar panel system. (Round your answer to the nearest percentage) (4)

2.4 Lindiwe wants to buy a car that cost R180 000,00. A bank offers a 3-year loan deal, with 15% deposit, 11% interest per annum compounded annually, and a residual value of 25% of the cost of the car.

Determine the total amount Lindiwe will pay if she wants to own the car. (7)

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QUESTION 3

3.1 TABLE 4 below shows the number of registered vehicles in March 2023 to March 2024.

TABLE 4: NUMBER OF REGISTERED VEHICLES IN MARCH 2023 TO MARCH 2024

MOTORISED VEHICLES	NUMBER OF REGISTERED MARCH 2023	NUMBER OF REGISTERED MARCH 2024
Motorcars	7 727 988	7 837 771
Minibuses	350 680	356 164
Buses	64 298	64 994
Motorcycles	347 621	350 405
LDV's Bakkies	2 670 338	2 701 912
Trucks	386 641	393 725
Other and unknown	237 504	239 469
Total motorised vehicles	**11 785 070**	**…**

Use TABLE 4 above to answer the questions that follow.

3.1.1 Write the total number of vehicles registered in March 2023, in words. (2)

3.1.2 Calculate the difference between the motorcars registered in March 2023 and March 2024. Give your answer to the nearest thousand. (3)

3.1.3 Express the number of registered motorcycles in March 2024 as a percentage of the total motorised vehicles in March 2024. (5)

3.1.4 Determine the probability of randomly selecting motorised vehicles registered in March 2023 that are more than 400 000 but less than 500 000. (2)

3.1.5 Arrange the number of vehicles registered in March 2024 in descending order. (2)

3.1.6 The transport officer claimed that the interquartile range of vehicles registered in March 2023 is 2 432 834.

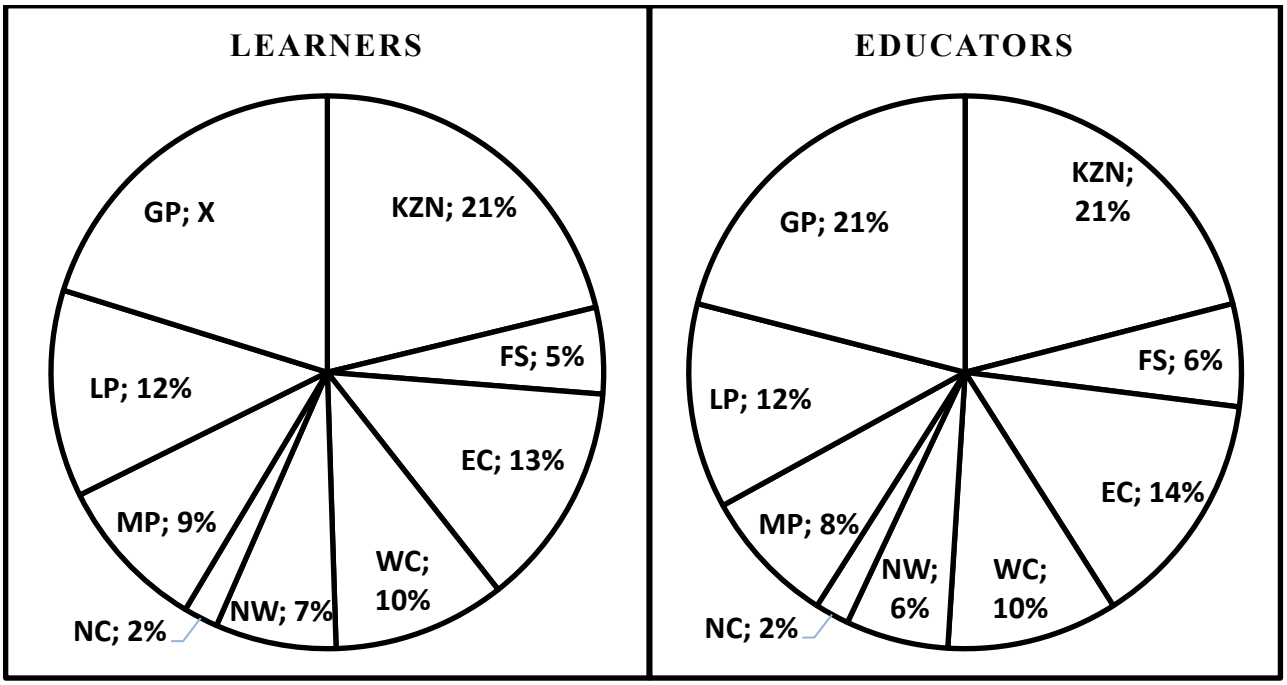
Verify if the statement made by the transport officer is VALID. (4)

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3.2 In South Africa in 2024 there were 459 993 educators and 13 527 283 learners. Study the information displayed in the pie charts below and answer the questions that follow.

NUMBER OF LEARNERS AND EDUCATORS IN SOUTH AFRICA IN 2024



3.2.1 Name the provinces that have the same percentage in the number of educators and learners. (2)

3.2.2 Identify ONE type of graph where the information of the above two charts can be shown together. (2)

3.2.3 Calculate the number of learners in GP. (3)

3.2.4 Determine the percentage range of learners in 2024. (2)

3.2.5 If the national average in South Africa is 1 teacher per 30 learners, state which of the two provinces, Eastern Cape or Limpopo, are above or below this average.

Use the information below:

- Eastern Cape: 61 673 educators; 1 782 431 learners
- Limpopo: 55 336 educators; 1 819 118 learners (5)

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QUESTION 4

4.1 Nancy is 42 years old. She earns a gross salary of R23 500 per month.

4.1.1 Calculate the amount of tax Nancy pays per month. (5)

4.1.2 Nancy received a new job offer. She claims that the new job would increase her tax to R4 100,00 per month if her salary is the maximum amount in tax bracket 2.

Verify if the statement is VALID. (7)

4.2 Qeqe High School entered eight of their ten learners in a debate competition. The scores for the first round are given below.

17; 19; 20; 18; **A**; 17 ; 19; 18

4.2.1 Write down the instrument used to collect the scores for the first round. (2)

4.2.2 The average score of eight learners is 18. Calculate the value of **A**. (6)

4.2.3 Complete the following statement:

The unusually high or low number that influences the mean is called … (2)

4.3 The 2026 national budget for South Africa is set at R2,67 trillion, with education receiving the largest allocation of R520,3 billion. The education budget will focus on improving learning outcomes, expanding access to education, and upgrading infrastructure.

TABLE 6 below shows the education budget of South Africa for 2026/2027.

TABLE 6: EDUCATION BUDGET OF SOUTH AFRICA FOR 2026/2027

EDUCATION BUDGET OF SOUTH AFRICA (IN RAND)	
Basic Education	332,3 billion
National Student Financial Aid Scheme (NSFAS)	55,4 billion
School Infrastructure	15,3 billion
Early Childhood Development (ECD)	1,7 billion

Use TABLE 6 above to answer the questions that follow.

4.3.1 Write the national budget of 2,67 trillion in full. (2)

4.3.2 If the government had an extra R100 million, which category would you prioritise? Give a reason for your answer. (3)

4.3.3 Explain the term *budget* in the context above. (2)

4.3.4 Write down the item which received the second least money from the education budget. (2)

4.3.5 Determine the probability, as a decimal, of randomly selecting a sector in the education budget with less than 2 billion. (3)

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QUESTION 5

5.1 TABLE 7 below gives definition of terminology used in Mathematical Literacy.

TABLE 7: DEFINITIONS OF TERMINOLOGY USED IN MATHEMATICAL LITERACY

LETTER	DEFINITION
A	A fund set up to provide income upon retirement
B	Investment fund whereby a person makes a monthly deposit
C	The percentage that is used to calculate the amount of interest that is either earned or charged

Use TABLE 7 above and match a definition with the terminology below.
Write only the letter (A–C) next to the question numbers (5.1.1 to 5.1.2)

5.1.1 Interest rate (2)

5.1.2 Pension fund (2)

5.2 A sample of marks scored by Grade 11 learners on a baseline test are represented in the stem and leaf table below.

TABLE 8: STEM AND LEAF TABLE

6	2 2 7 8
7	0 4 5 9
8	1 1 1 5
9	3 4
Key |5 | 2| = 52	

5.2.1 Write down the mode of the values. (2)

5.2.2 Determine the median of the values given in the stem and leaf table. (3)

5.3 Noxie received her first salary slip. Her basic salary is R18 000. She receives a housing subsidy of R1 200 per month and a cellphone allowance of R200. The UIF amount that was deducted from her salary was R194,00.

5.3.1 Noxie states that her deductions were calculated incorrectly.

Verify, with calculation, whether Noxie's statement is VALID. (3)

5.3.2 Identify the mistake on Noxie's salary slip. (2)

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5.4 Paul and his twin sister, Nova, are relocating to Ekurhuleni to start new jobs there. They want to share a flat that is valued at R300 000. They want to share the rent equally. They expect to use about 300 kWh of electricity and 40 kℓ of water, of which 75% of water is used for sewage discharge. The property owner will collect a weekly fee of R35,00 for refuse collection.

Nova says she will be paying for water and sewage disposal, while Paul will pay for refuse collection and the electricity used monthly.

TABLE 9 below shows the tariff rate for water and sewage disposal.

TABLE 9: TARIFF RATE FOR WATER AND SEWER SUPPLY FOR 2025/2026

BLOCK	KILOLITERS	TARIFF FOR WATER (EXCL. VAT)	TARIFF FOR SEWAGE (EXCL. VAT)
1	0–6 kℓ	R26,12	R30,89
2	7–15 kℓ	R43,04	R24,71
3	16–30 kℓ	R52,73	R10,50
4	31–45 kℓ	R65,62	R9,65
5	46 kℓ or more	R80,90	R6,59

TABLE 10: TARIFF RATE FOR ELECTRICITY FOR 2025/2026

BLOCK	TARIFF A RESIDENTS (kWh)	RATE IN R/KWH (INCL. VAT)
1	0 to 600 kWh	2,5861
2	More than 600 to 700 kWh	4,3956
3	More than 700 kWh	11,4398

Use TABLE 9 and 10 to determine who will pay more money for services each month. (9)
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TOTAL: 150

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