Province of the
EASTERN CAPE
EDUCATION

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

NATIONAL SENIOR CERTIFICATE

GRADE 12

SEPTEMBER 2025

Stanmorephysics.com

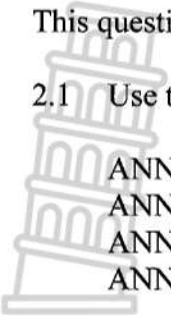## MATHEMATICAL LITERACY P1

MARKS: 150

TIME: 3 hours

MLITE1

This question paper consists of 14 pages, including 2 answer sheets and an addendum with 4 annexures.

INSTRUCTIONS AND INFORMATION

1. This question paper consists of FIVE questions. Answer ALL the questions.

2. 2.1 Use the ANNEXURES in the ADDENDUM to answer the following questions:

    ANNEXURE A for QUESTION 1.1
    ANNEXURE B for QUESTION 2.1
    ANNEXURE C for QUESTION 4.3
    ANNEXURE D for QUESTION 5.3

    2.2 Answer QUESTION 1.4.2 and 5.2.2 on the attached ANSWER SHEETS.

    2.3 Write your NAME and SURNAME in the spaces provided on the ANSWER SHEET and hand in the ANSWER SHEETS with your ANSWER BOOK.

3. Number the answers correctly according to the numbering system used in this question paper.

4. Start EACH question on a NEW page.

5. Leave ONE line between two subquestions.

6. You may use an approved calculator (non-programmable and non-graphical), unless stated otherwise.

7. Show ALL calculations clearly.

8. Round off ALL final answers to TWO decimal places, unless stated otherwise.

9. Indicate units of measurement, where applicable.

10. Diagrams are NOT necessarily drawn to scale, unless stated otherwise.

11. Answers only will NOT necessarily be awarded full marks.

12. Write neatly and legibly.

QUESTION 1

1.1 ANNEXURE A shows an extract from Amanda's monthly statement from the Government Employee Medical Scheme (GEMS). Amanda has four dependents, one of them visited the pharmacy for medication.

Use ANNEXURE A to answer the following questions.

    1.1.1   Identify the month that is covered by this statement.   (2)

    1.1.2   Write down the name of the pharmacist visited.   (2)

    1.1.3   Calculate the total amount claimed from the medical scheme.   (2)

1.2 The boys school entered a quiz competition and won a minibus. The school governing body (SGB) searched for maintenance costs for the minibus. TABLE 1 below shows the maintenance costs.

TABLE 1: MAINTENANCE ITEMS AND THEIR COST

ITEMS	COSTS
Car license	R330,00
Insurance	R325,50 (per month)
Wheel Alignment	R225,00
Tyres (4 needed)	R899,00 per tyre
Tune-up	R535,25
Grease and oil change	R398,00

Use TABLE 1 to answer the questions that follow.

    1.2.1   Calculate the annual total cost for insurance.   (2)

    1.2.2   Write down the cost of replacing one tyre, in cents.   (2)

    1.2.3   Write down, as a ratio, the cost of wheel alignment to the cost of grease and oil change. Leave your answer as 1 : …   (3)

1.3 Mrs Lara created her monthly budget and summarised her income and expenses in TABLE 2 below.

TABLE 2: MRS LARA'S MONTHLY BUDGET

Income		
Monthly Salary		R15 000
Expenses		
Rent	R6 000	
Groceries	R3 500	
Transport	R2 000	
Entertainment	R2 000	
Cell phone contract	R300	
Savings	R2 000	
TOTAL	---	
Deficit/Surplus		R800

Use TABLE 2 above to answer the following questions.

1.3.1 Give ONE example of a fixed expense from Mrs Lara's budget. (2)

1.3.2 Calculate Mrs Lara's total expenses. (2)

1.3.3 Choose the CORRECT word from those in bracket to make the following statement TRUE.

R800 is a (deficit/surplus). (2)

1.4 A Grade 9 learner conducted a survey on the most spoken Home Langauge used by her peers. The results of the survey is presented in TABLE 3 below.

TABLE 3: RESULTS ON MOST SPOKEN HOME LANGUAGE

LANGUAGE	TALLY	FREQUENCY	PERCENTAGES (%)
English		45	50,6
Afrikaans		7	7,9
isiXhosa		23	25,8
isiZulu		14	15,7

Use TABLE 3 to answer the questions that follow.

1.4.1 Determine the third most common spoken language at the school. (2)

1.4.2 Use ANSWER SHEET 1 to complete the tally column. (3)

1.4.3 Write down the probability of randomly selecting an isiXhosa Home Language speaking learner at the school. (2)

1.5 Choose a description from COLUMN B that matches a term in COLUMN A. Write only the letter (A–G) next to the question numbers (1.5.1 to 1.5.4) in the ANSWER BOOK, for example 1.5.5 H.

COLUMN A	COLUMN B
1.5.1. Debit	A raw information that has been collected without any organisation or analysis
1.5.2. Break-even point	B two or more events where the outcome of one event does not affect the outcome of the other event
1.5.3. Independent event	C the income equal to the expenses
1.5.4. Data	D when someone or an organisation takes money out of your account
	E an estimate of income and expenditure
	F two or more events in which the outcome of one event affects the outcome of the other event
	G information that has been processed and analysed

(8)

[34]

QUESTION 2

2.1 ANNEXURE B shows part of the monthly deduction tables which show employers how much tax to be deducted from an employee's monthly salary, depending on how much an employee is earning. The table is issued by SARS to employers. Annie is a 76-year-old employee working at a local company.

TABLE 4: TAX RATES FOR 2024/2025 TAX YEAR (1 MAR. 2024 TO 28 FEB. 2025)

TAX BRACKET	TAXABLE INCOME (R)	RATES OF TAX (R)
1	0–237 100	18% of taxable income
2	237 101–370 500	42 678 + 26% of taxable income above 237 100
3	237 5001–512 800	77 362 + 31% of taxable income above 370 500
4	512 801–673 000	121 475 + 36% of taxable income above 512 800
5	673 001–857 900	179 147 + 39% of taxable income above 673 000
6	857 9001–1 817 000	251 258 + 41% of taxable income above 857 900
7	1 817 001 and above	644 489 + 45% of taxable income above 1 817 000

TABLE 5: TAX REBATES AND TAX THRESHOLD FOR THE 2024/2025 TAX YEAR

REBATES	VALUE	TAX THRESHOLD
Below age 65	R17 235	R95 750
Age below 65 to below 75	R9 444	R148 217
Age 75 and over	R3 145	R165 689

Use ANNEXURE B, TABLE 4 and TABLE 5 above to answer the questions that follow.

2.1.1 Use ANNEXURE B to write down the maximum monthly earnings, for an employee over 75, before he/she is liable for any tax contribution. (2)

2.1.2 Write down the annual earnings for Annie. (2)

2.1.3 Use the information on tax rebates in TABLE 5, to calculate the annual tax payable by Annie and explain your answer. (6)

2.2 Phindi contributes R4 118,40 per year towards the Unemployment Insurance Fund (UIF). Calculate Phindi's monthly salary. (4)

2.3 | A shop owner bought 20 laptops at R5 000 each. She sells 10 laptops at R6 000 each and offers a 10% discount on the remaining 10 laptops.

    2.3.1 Calculate the total profit made by the shop owner.

        You may use the formula:

        Profit = Income – Expenses (8)

    2.3.2 Calculate the percentage profit of the 20 laptops to the total profit received. (3)

2.4 A tourist exchanges R10 000 into Euros at an exchange rate of 1 EURO = R19,92. She then spends €500 on souvenirs. Calculate the amount of change she has left, to the nearest rand. (6)

[31]

QUESTION 3

3.1 TABLE 6 below shows museums with the highest attendance in Europe from 2021 to 2023. All the values are given in thousands.
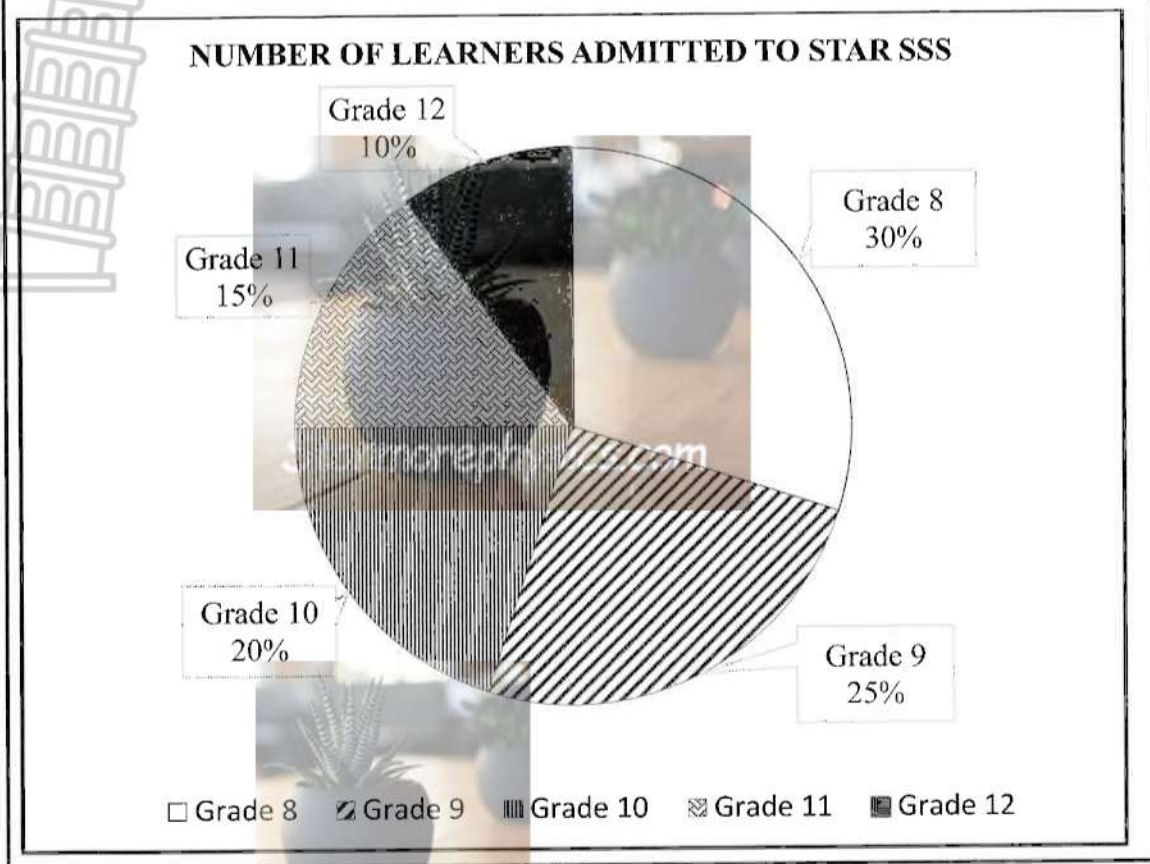
TABLE 6: MUSEUM ATTENDANCE (IN THOUSANDS)

CHARACTERISTICS	2021	2022	2023
Louvre, Paris (France)	9,600	7,726	8,860
Vatican Museum (Vatican City)	6,883	5,081	6,765
British Museum London (United Kingdom)	6,208	4,097	5,821
Natural History Museum, London (United Kingdom)	5,424	4,655	5,689
Tate Modern, London (United Kingdom)	6,098	3,883	4,742
Musee D'Orsay, Paris (France)	3,652	3,270	3,871
Museo Nacional Del Prado, Madrid (Spain)	3,203	2,457	3,338
State Hermitage, St. Petersburg (Russia)	4,957	2,813	3,274

[Source: Statisca.com]

3.1.1 Write down the year with the least total number of attendances. (2)

3.1.2 Write down the number of museums found in France. (2)

3.1.3 Calculate the difference between the number of 2021 attendance at the Vatican Museum (Vatican City) and the number at Natural History Museum, London (United Kingdom). (3)

3.1.4 Determine, as a percentage, the probability of randomly selecting a tourist visiting United Kingdom museums in 2023. (5)

3.1.5 Determine whether the data in TABLE 6 is continuous or discreet. (2)

3.2 The pie chart below shows the distribution of learners admitted to Star Senior Secondary School. In total 780 learners were admitted.

NUMBER OF LEARNERS ADMITTED TO STAR SSS

Grade 12 10%
Grade 8 30%
Grade 11 15%
Grade 10 20%
Grade 9 25%

□ Grade 8   ▨ Grade 9   ▥ Grade 10   ▩ Grade 11   ▣ Grade 12

3.2.1   Determine the percentage of learners who are in the last two years of their Further Education Training (FET) phase.   (3)

3.2.2   Calculate the number of learners in Grade 10.   (3)

3.2.3   The senior management team (SMT) member of Star Senior Secondary School reported that there are more learners in Grade 8 than in Grade 9.
Calculate the difference between the numbers of Grade 8 and Grade 9 learners.   (6)

[26]

QUESTION 4

4.1 | The six inter-connected stages of the statistic process are given below:

Organise data; Representing data graphically; Developing questions; Analyse data; Summarise data; Collecting data

4.1.1 Arrange the stages in the correct order from stage 1 to stage 6. (3)

4.1.2 Name THREE types of graphs that can be used to represent data information, excluding a pie chart. (3)

4.2 | TABLE 7 shows the new tariffs (on a sliding scale) for the Cola Bus service, effective from 1 July 2023 to 30 June 2024. Some information has been omitted.

TABLE 7: NEW FARES FOR COLA BUS SERVICE

DISTANCE	2022/23 TARRIF PER km EXCLUDING VAT	2023/24 TARRIF PER km EXCLUDING VAT
0–5 km	R9,50	R10,00
5,1–10 km	R12,00	R12,50
10,1–15 km	R14,50	R15,00
15,1–25 km	R16,00	R17,00
25,1–35 km	R18,00	R19,00
35,1–45 km	R20,00	R20,00
More than 45 km	R25,00	R26,00

Use TABLE 7 to answer the following questions.

4.2.1 Calculate the percentage increase, in the tariffs for the distance of 10,1 km to 15 km, from 2023 to 2024. (4)

4.2.2 Nancy lives in Boksburg and needs to travel to Johannesburg for interviews. The distance from Boksburg to Johannesburg is 24,1 km. After comparing prices, she found out that taking a metre taxi would cost R600,00 for a one-way trip. However, she discovered that using the Cola Bus service is a more affordable option. Use TABLE 7, and the 2023/24 tarrifs to verify if Nancy's statement is correct. (7)

4.3 | Complete the following paragraph by filling in the missing values. Write only the answer next to the question numbers (4.3.1 to 4.3.2) in your ANSWER BOOK.

Use the growth chart in ANNEXURE C to answer the following questions.

The chart shows that at age 2 years, 95% of boys are less than (4.3.1 …) inches. At (4.3.2 …) years 95% of boys are less than 75 inches (about 189 cm). (4)

4.4 | Body-mass index for age percentiles for boys ages 2 to 20 years is shown on ANNEXURE C.

Use ANNEXURE C to answer questions that follow.

Calculate the Body-mass index (round off your answers to ONE decimal place) of an 18-year-old boy whose weight is at the 75th percentile and whose height is at the 25th percentile.

You may use the formula: $\mathbf{BMI} = \dfrac{\textbf{mass in kg}}{\textbf{(height in metres)}^2}$

(5)

[26]

QUESTION 5

5.1   The Grade 11 learners at X Kit High School want to start a school tuckshop and need to purchase a refrigerator. They found one priced at R12 000 and decided to buy it at a hire-purchase option. They will pay a 25% deposit upfront and repay the remaining amount over 36 months, in equal instalments, at an annual interest rate of 15%. Calculate their monthly instalment.   (8)

5.2   The South African Netball team participated in the 2025 Netball Nations Cup and played 4 games. The results of the games are showed in TABLE 8.

TABLE 8: SOUTH AFRICAN NETBALL TEAM RESULTS 2025

GAMES	POINTS SCORED
1	75
2	58
3	61
4	55

5.2.1   Use ANSWER SHEET 2 to draw a bar graph to represent the data of the points scored.   (4)

5.2.2   The netball coach stated that the difference between the mean and the median is 2,75. Verify with calculations whether the coach statement is correct or not.   (8)

5.3   Wayne made a purchase at CKS Pharmacy and received a till slip. A copy of the cash register receipt is shown in ANNEXURE D.

Use ANNEXURE D to answer the following questions.

5.3.1   Write down the method used to pay for the items.   (2)

5.3.2   Calculate the percentage discount that Wayne received on two comfort luxury products.   (5)

5.3.3   Determine the total amount paid by this customer if he uses the cashback amount.   (4)

5.4   As of December 2024, South Africa's inflation rate stood at 3,0%. Meanwhile, workers received an annual salary increment of 5,5%. Calculate the actual increase rate.   (2)

                                            [33]

                                    TOTAL: 150

ANSWER SHEET 1

NAME OF LEARNER: ……………………………….   GRADE: ……

QUESTION 1.4.2

LANGUAGE	TALLY	FREQUENCY
English		45
Afrikaans		7
isiXhosa		23
isiZulu		14

ANSWER SHEET 2

NAME OF LEARNER: ………………………………….

QUESTION 5.2.2
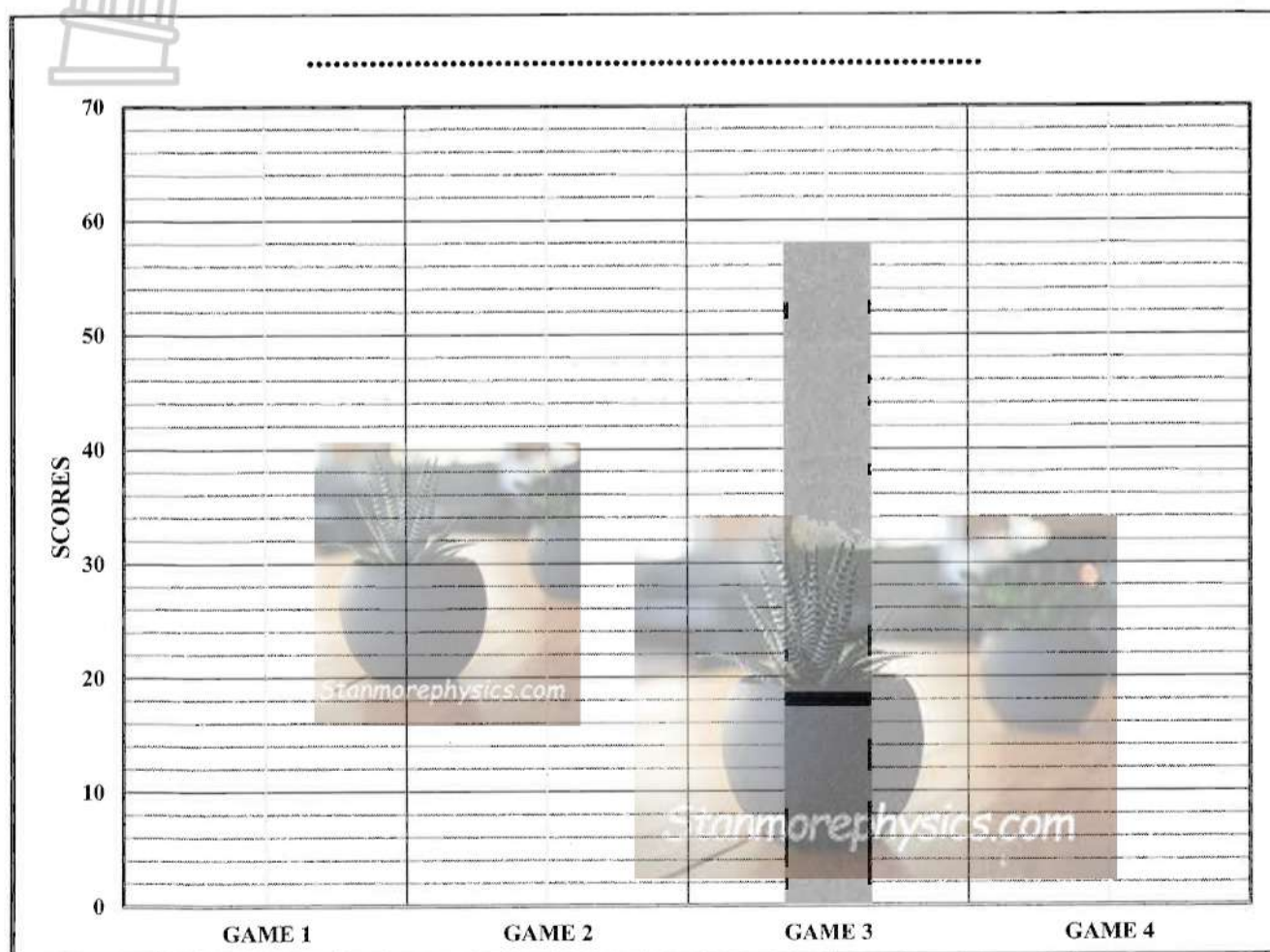
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GRADE 12

SEPTEMBER 2025

MATHEMATICAL LITERACY P1
ADDENDUM

This addendum consists of 6 pages with 4 annexures.

ANNEXURE A

QUESTION 1.1

MEDICAL AID STATEMENT

BENEFICIARY CODE	TREATMENT DATE	TARIFF CODE	AMOUNT CHARGED	AMOUNT PAYABLE TO PROVIDER	AMOUNT OWED TO SCHEME	AMOUNT REFUNDABLE TO MEMBER	AMOUNT MEMBER MUST PAY PROVIDER	REASON CODE
01	11/12/2024	11001	R631,70	R631,70				
01	11/12/2024	40501	R1 399,00	R1,399				
01	11/12/2024	871565	R243,50	R243,50				
01	11/12/2024	871565	R243,50	R243,50				
CKS PHARMACY – RAVENSWOOD MR 0981605 (Pharmacist)								
01	04/12/2024	Selfmed	R64,37	R64,37				
01	04/12/2024	Selfmed	R68,02	R68,02				
01	04/12/2024	Selfmed	R21,28	R21,28				
01	04/12/2024	Selfmed	R94,43	R94,43				
TOTALS								

Summary of Claims Settlements

Payable to Provider(s)	
Payable to member (Credit)	R0,00

ANNEXURE B: QUESTION 2.1

EFFECTIVE DATE

2024/03/01

MONTHLY DEDUCTION TABLES

Remuneration			Annual Equivalent	Tax			Remuneration			Annual Equivalent	Tax		
				Under 65	65 – 74	Over 75					Under 65	65 – 74	Over 75
R 0	-	R 4,979	R 59,748	R 0	R 0	R 0	R 9,929	-	R 10,029	R 119,748	R 360	R 0	R 0
R 4,980	-	R 5,080	R 60,360	R 0	R 0	R 0	R 10,030	-	R 10,130	R 120,960	R 378	R 0	R 0
R 5,081	-	R 5,181	R 61,572	R 0	R 0	R 0	R 10,131	-	R 10,231	R 122,172	R 396	R 0	R 0
R 5,182	-	R 5,282	R 62,784	R 0	R 0	R 0	R 10,232	-	R 10,332	R 123,384	R 414	R 0	R 0
R 5,283	-	R 5,383	R 63,996	R 0	R 0	R 0	R 10,333	-	R 10,433	R 124,596	R 433	R 0	R 0
R 5,384	-	R 5,484	R 65,208	R 0	R 0	R 0	R 10,434	-	R 10,534	R 125,808	R 451	R 0	R 0
R 5,485	-	R 5,585	R 66,420	R 0	R 0	R 0	R 10,535	-	R 10,635	R 127,020	R 469	R 0	R 0
R 5,586	-	R 5,686	R 67,632	R 0	R 0	R 0	R 10,636	-	R 10,736	R 128,232	R 487	R 0	R 0
R 5,687	-	R 5,787	R 68,844	R 0	R 0	R 0	R 10,737	-	R 10,837	R 129,444	R 505	R 0	R 0
R 5,788	-	R 5,888	R 70,056	R 0	R 0	R 0	R 10,838	-	R 10,938	R 130,656	R 524	R 0	R 0
R 5,889	-	R 5,989	R 71,268	R 0	R 0	R 0	R 10,939	-	R 11,039	R 131,868	R 542	R 0	R 0
R 5,990	-	R 6,090	R 72,480	R 0	R 0	R 0	R 11,040	-	R 11,140	R 133,080	R 560	R 0	R 0
R 6,091	-	R 6,191	R 73,692	R 0	R 0	R 0	R 11,141	-	R 11,241	R 134,292	R 578	R 0	R 0
R 6,192	-	R 6,292	R 74,904	R 0	R 0	R 0	R 11,242	-	R 11,342	R 135,504	R 596	R 0	R 0
R 6,293	-	R 6,393	R 76,116	R 0	R 0	R 0	R 11,343	-	R 11,443	R 136,716	R 614	R 0	R 0
R 6,394	-	R 6,494	R 77,328	R 0	R 0	R 0	R 11,444	-	R 11,544	R 137,928	R 633	R 0	R 0
R 6,495	-	R 6,595	R 78,540	R 0	R 0	R 0	R 11,545	-	R 11,645	R 139,140	R 651	R 0	R 0
R 6,596	-	R 6,696	R 79,752	R 0	R 0	R 0	R 11,646	-	R 11,746	R 140,352	R 669	R 0	R 0
R 6,697	-	R 6,797	R 80,964	R 0	R 0	R 0	R 11,747	-	R 11,847	R 141,564	R 687	R 0	R 0
R 6,798	-	R 6,898	R 82,176	R 0	R 0	R 0	R 11,848	-	R 11,948	R 142,776	R 705	R 0	R 0
R 6,899	-	R 6,999	R 83,388	R 0	R 0	R 0	R 11,949	-	R 12,049	R 143,988	R 724	R 0	R 0
R 7,000	-	R 7,100	R 84,600	R 0	R 0	R 0	R 12,050	-	R 12,150	R 145,200	R 742	R 0	R 0
R 7,101	-	R 7,201	R 85,812	R 0	R 0	R 0	R 12,151	-	R 12,251	R 146,412	R 760	R 0	R 0

|											
R 7,202	-	R 7,302	R 87,024	R 0	R 0	R 0	R 12,252	-	R 12,352	R 147,624	R 778	R 0	R 0
R 7,303	-	R 7,403	R 88,236	R 0	R 0	R 0	R 12,353	-	R 12,453	R 148,836	R 796	R 9	R 0
R 7,404	-	R 7,504	R 89,448	R 0	R 0	R 0	R 12,454	-	R 12,554	R 150,048	R 814	R 27	R 0
R 7,505	-	R 7,605	R 90,660	R 0	R 0	R 0	R 12,555	-	R 12,655	R 151,260	R 833	R 46	R 0
R 7,606	-	R 7,706	R 91,872	R 0	R 0	R 0	R 12,656	-	R 12,756	R 152,472	R 851	R 64	R 0
R 7,707	-	R 7,807	R 93,084	R 0	R 0	R 0	R 12,757	-	R 12,857	R 153,684	R 869	R 82	R 0
R 7,808	-	R 7,908	R 94,296	R 0	R 0	R 0	R 12,858	-	R 12,958	R 154,896	R 887	R 100	R 0
R 7,909	-	R 8,009	R 95,508	R 0	R 0	R 0	R 12,959	-	R 13,059	R 156,108	R 905	R 118	R 0
R 8,010	-	R 8,110	R 96,720	R 15	R 0	R 0	R 13,060	-	R 13,160	R 157,320	R 924	R 137	R 0
R 8,111	-	R 8,211	R 97,932	R 33	R 0	R 0	R 13,161	-	R 13,261	R 158,532	R 942	R 155	R 0
R 8,212	-	R 8,312	R 99,144	R 51	R 0	R 0	R 13,262	-	R 13,362	R 159,744	R 960	R 173	R 0
R 8,313	-	R 8,413	R 100,356	R 69	R 0	R 0	R 13,363	-	R 13,463	R 160,956	R 978	R 191	R 0
R 8,414	-	R 8,514	R 101,568	R 87	R 0	R 0	R 13,464	-	R 13,564	R 162,168	R 996	R 209	R 0
R 8,414	-	R 8,514	R 101,568	R 87	R 0	R 0	R 13,464	-	R 13,564	R 162,168	R 996	R 209	R 0
R 8,515	-	R 8,615	R 102,780	R 105	R 0	R 0	R 13,565	-	R 13,665	R 163,380	R 1,014	R 227	R 0
R 8,616	-	R 8,716	R 103,992	R 124	R 0	R 0	R 13,666	-	R 13,766	R 165,192	R 1,033	R 246	R 0
R 8,717	-	R 8,817	R 105,204	R 142	R 0	R 0	R 13,767	-	R 13,867	R 165,804	R 1,051	R 264	R 2
R 8,818	-	R 8,918	R 106,416	R 160	R 0	R 0	R 13,868	-	R 13,968	R 167,016	R 1,069	R 282	R 20
R 8,919	-	R 9,019	R 107,628	R 178	R 0	R 0	R 13,969	-	R 14,069	R 168,228	R 1,087	R 300	R 38
R 9,020	-	R 9,120	R 108,840	R 196	R 0	R 0	R 14,070	-	R 14,170	R 169,440	R 1,105	R 318	R 56
R 9,121	-	R 9,221	R 110,052	R 215	R 0	R 0	R 14,171	-	R 14,271	R 170,652	R 1,124	R 337	R 74
R 9,222	-	R 9,322	R 111,264	R 233	R 0	R 0	R 14,272	-	R 14,372	R 171,864	R 1,142	R 355	R 93
R 9,323	-	R 9,423	R 112,476	R 251	R 0	R 0	R 14,373	-	R 14,473	R 173,076	R 1,160	R 373	R 111
R 9,424	-	R 9,524	R 113,688	R 269	R 0	R 0	R 14,474	-	R 14,574	R 174,288	R 1,178	R 391	R 129
R 9,525	-	R 9,625	R 114,900	R 287	R 0	R 0	R 14,575	-	R 14,675	R 175,500	R 1,196	R 409	R 147
R 9,626	-	R 9,726	R 116,112	R 305	R 0	R 0	R 14,676	-	R 14,776	R 176,712	R 1,214	R 427	R 165
R 9,727	-	R 9,827	R 117,324	R 324	R 0	R 0	R 14,777	-	R 14,877	R 177,924	R 1,233	R 446	R 184
R 9,828	-	R 9,928	R 118,536	R 342	R 0	R 0	R 14,878	-	R 14,978	R 179,136	R 1,251	R 464	R 202

R 0   -   R 14,978

ANNEXURE C

QUESTION 4.3

2 to 20 years: Boys
Stature-for-age and Weight-for-age percentiles
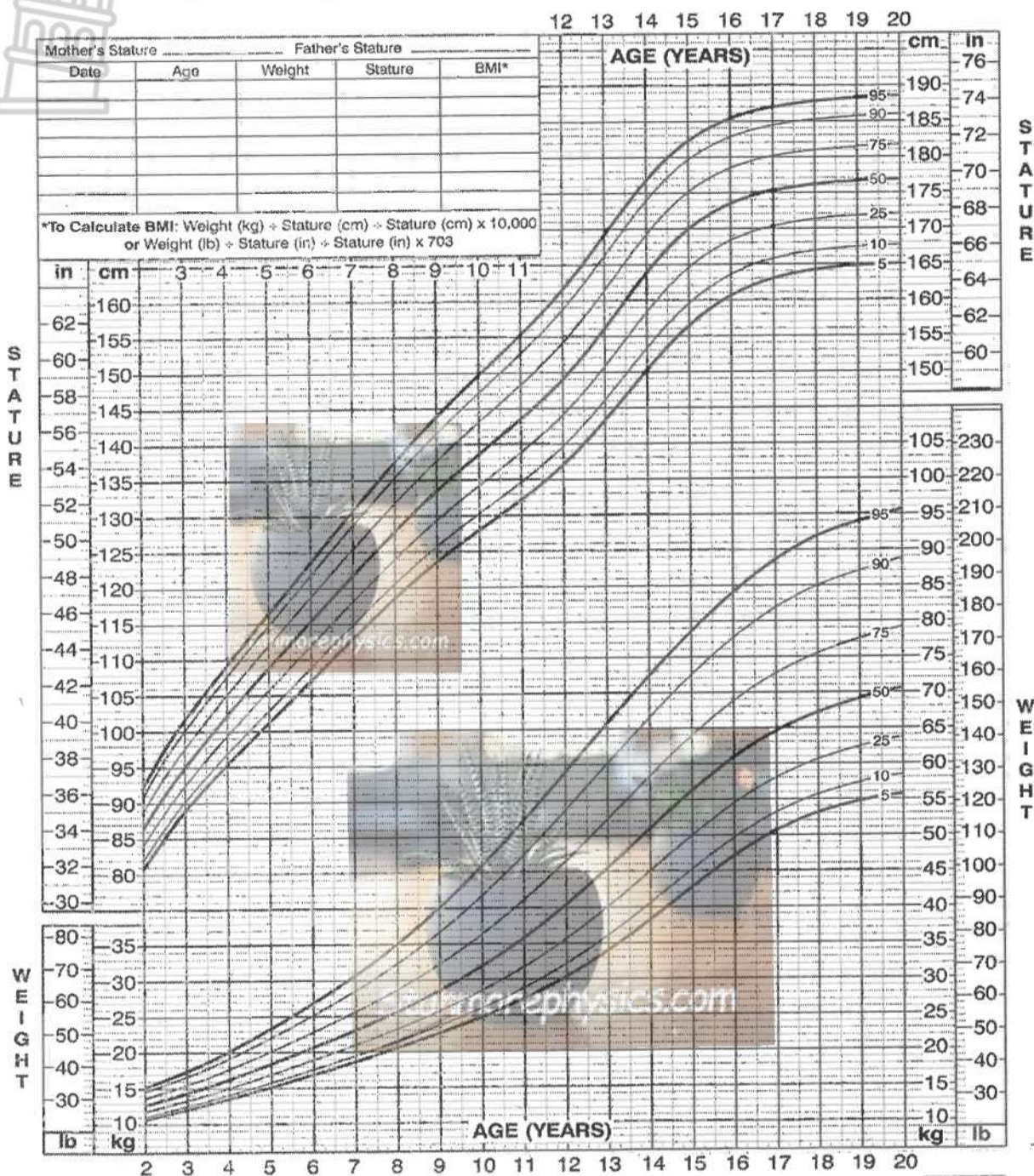
Published May 30, 2000 (modified 11/21/00).
SOURCE: Developed by the National Center for Health Statistics in collaboration with
the National Center for Chronic Disease Prevention and Health Promotion (2000).
http://www.cdc.gov/growthcharts

Please turn over

ANNEXTURE D: QUESTION 5.3

CKS Pharmacy	
CALL 0860 454 257 www.cks.co.za	
Welcome to	
CKS Pinetown	
CKS 100% 24 ℓ Bag	R1,48
Comfort Luxury Lily	R72,98
Comfort Luxury Nectr	R72,99
Domestic Soap 500 g	R25,99
Dove Soap White 90 g	R24,99
Medicated Soap 75 g	
2 @ R28,99	R57,98
Native child Deep Con	R82,99
Nivea Roll-On 50 mℓ	R34,99
S/P SP30 F/C 50 mℓ	R105,00
Medicated Soap 75 g	- R11,99
Comfort Luxury	- R45,98
Total savings	**R57,96**
10 BALANCE DUE	……….
Credit Card	………..
CHANGE	R0,00
Total before VAT	………
Total VAT	R54,97
Total after VAT	………..
…………………………………………………….	
CLUBCARD	020*****1521
Club card Status	
Cashback opening balance	R63,50
Cashback spent	R0,00
Cashback Balance	R63,50

Province of the
EASTERN CAPE
EDUCATION

Iphondo loMpuma Kapa: Isebe loMfundo
Provinsie van die Oos Kaap: Department van Onderwys
Porafensie Ya Kapa Botjhabela: Lefapha la Thuto

NATIONAL
SENIOR CERTIFICATE

GRADE 12

SEPTEMBER 2025

MATHEMATICAL LITERACY P1
MARKING GUIDELINE

MARKS: 150

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/Reason
NPR	No penalty for correct rounding minimum two decimal places
AO	Answer only
MCA	Method with constant accuracy

_____

This marking guideline consists of 9 pages.

_____

MATHEMATICS LITERACY P2 (EC/SEPTEMBER 2025)

MARKING GUIDELINE

NOTE:

- If a candidate answers a question TWICE, only mark the FIRST attempt.
- If a candidate has crossed out an attempt of a question and not redone the question, mark the crossed-out version.
- Consistent accuracy applies in ALL aspects of the marking guideline. Stop marking at the second calculation error.
- NOTE: Consistent accuracy (CA) does NOT apply in cases of a breakdown.
- If the candidate presents any extra solution when reading from a graph and table, then penalise for every extra item presented.
- As a general marking principle, if a candidate has incurred one mistake and there is evidence of sound Mathematics thereafter, then that candidate should lose ONE mark only.

Topics: F – Finance, DH – Data Handling, P – Probability

QUESTION 1 [34 MARKS]			
Que.	Solution	Explanation	T&L
1.1.1	December ✓✓A	2A reading correct month (2)	F L1
1.1.2	Mr Ravenswood ✓✓A	2A correct name (2)	F L1
1.1.3	Costs = R631,70 + R1 399,00 + R243,50 + R243,50 + R64,37 + R68,02 + R21,28 + R94,43 ✓MA = R2 765,80 ✓CA	1MA Adding correct amounts 1CA answer (2)	F L1
1.2.1	Cost = R325,50 × 12 ✓MA = R3 906,00 ✓CA	1MA multiplying by 12 (2)	F L1
1.2.2	Cost for one tyre in cents = R899,00 × 100 = 89 900 cents ✓✓A	2A correct amount (2)	F L1
1.2.3	R225 : R398 ✓RT $\dfrac{225}{225} : \dfrac{398}{225}$ ✓M 1 : 1,77 ✓CA	1RT correct amounts 1 M division 1CA simplification (3)	F L1
1.3.1	Rent ✓✓A **OR** Cell phone contract ✓✓A **OR** transport ✓✓A **OR** savings ✓✓A	2A correct fixed expense (2)	F L1

1.3.2	✓MA Total Expenses = R6 000,00 + R3 500,00 + R2 000,00 + R300,00 + R2 000 = R15 800,00 ✓CA	1MA for adding correct values 1CA simplification (2)	F L1
1.3.3	Deficit ✓✓A	2A correct identification (2)	F L1
1.4.1	IsiZulu ✓✓A	2A answer (2)	D L1
1.4.2	<table><tr><td>**Response**</td><td>**Tally**</td><td>**Frequency**</td></tr><tr><td>English</td><td>HHH HHH HHH HHH HHH HHH HHH HHH HHH ✓A</td><td>45</td></tr><tr><td>Afrikaans</td><td>HHH II ✓A</td><td>7</td></tr><tr><td>IsiXhosa</td><td>HHH HHH HHH HHH III ✓A</td><td>23</td></tr><tr><td>IsiZulu</td><td>HHH HHH IIII</td><td>14</td></tr></table>	1 A for English 1 A for Afrikaans 1 A for IsiXhosa and IsiZulu (3)	D L1
1.4.3	Probability (IsiXhosa) = 25,8% ✓✓RT **OR** $\frac{23}{89}$ ✓RT = 0,26 **OR** 26% ✓A	2RT correct percentage (2)	P L1
1.5.1	D ✓✓A	2 A answer (2)	F L1
1.5.2	C ✓✓A	2 A answer (2)	F L1
1.5.3	B ✓✓A	2 A answer (2)	P L1
1.5.4	A ✓✓A	2 A answer (2)	D L1
		[34]	

MATHEMATICS LITERACY P1 (EC/SEPTEMBER 2025)
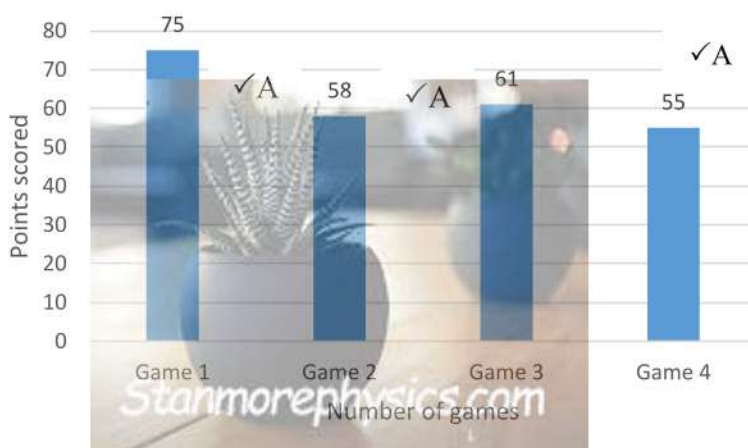
QUESTION 2 [31 MARKS]

Que.	Solution	Explanation	T&L
2.1.1	Max monthly earnings = R13 766 ✓✓RT	2RT Correct monthly earnings (2)	F L1
2.1.2	Annual earnings = R165 192 ✓✓RT	2RT correct annual earnings (2)	F L1
2.1.3	Annual Tax = R165 192 × $\frac{18}{100}$ ✓A = R29 734,56 ✓A = R29 734,56 − (R17 235,00 + R9 444,00 + R3 145) ✓MA = -R89,44 ✓A The employee does not pay any tax because the rebate is larger than the amount of tax. SARS must pay the employee a refund of R89,44 ✓✓J	CA from 2.1.2 1A correct bracket 1A simplification 1MA subtracting all rebate 1A answer 2A justification (6)	F L3
2.2	Monthly salary = R4 118,40 × 100 ✓MA = R411 840,00 ✓M = R411 840,00 ÷ 12 ✓MA = R34 320 ✓CA	1MA multiplying by 100 1M simplification 1MA dividing by 100 1CA answer (4)	F L2
2.3.1	Cost for 20 laptops = R5 000,00 × 20 ✓MA = R100 000,00 ✓A Selling price for 10 laptops = R6 000,00 × 10 = R60 000,00 ✓MA Discount on remaining = R60 000 × $\frac{10}{100}$ = R6 000 ✓CA = R60 000,00 − R6 000 = R54 000,00 ✓CA Income = R60 000,00 + R54 000,00 ✓M = R114 000,00 Profit = Income - Expenses = R114 000,00 − R100 000,00 ✓MCA = R14 000,00 ✓CA	1MA multiplying by 20 1A simplification 1MA simplification 1CA simplification 1CA discount 1M adding correct amounts 1MCA subtracting correct values 1CA simplification	F L4

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		OR	OR	
	Cost for 20 laptops	$= $ R5 000,00 $\times$ 20 ✓MA $= $ R100 000,00 ✓A	1MA multiplying by 20 1A simplification	
	Selling price for 10 laptops	$= $ R6 000,00 $\times$ 10 $= $ R60 000,00 ✓MA	1MA simplification	
	Discount on remaining	$= $ R60 000 $\times \frac{90}{100}$ ✓M $= $ R54 000,00 ✓CA	1M multiplication 1CA discount	
	Income	$= $ R60 000,00 $+$ R54 000,00 ✓M $= $ R114 000,00	1M adding correct amounts	
	Profit	$= $ Income - Expenses $= $ R114 000,00 $-$ R100 000,00 ✓MCA $= $ R14 000,00 ✓CA	1MCA subtracting correct values 1CA simplification (8)	
2.3.2	% profit $= \dfrac{\text{Profit}}{\text{Cost}} \times 100$ $= \dfrac{R14\,000,00\ \text{✓RT}}{100\,000\ \text{✓RT}} \times 100$ ✓MA $= 14\%$ ✓CA		**CA from 2.3.1** 1 RT correct value 1MA multiplying by 100 1CA simplification (3)	F L3
2.4	1 Euro(€) $= $ R19,92 $?$ $\quad = $ R10 000,00 $= \dfrac{R10\,000,00\ \text{✓C}}{R19,92}$ $= $ € 502,00 ✓CA $= $ €502 $-$ € 500 ✓MA $= $ € 2 ✓CA Remaining $= $ R19,92 $\times$ € 2 ✓C $= $ R39,84 $= $ R40 ✓R **OR** 1 Euro(€) $= $ R19,92 500(€) $\quad = $ R? $= $ 500 ✓RT $\times$ 19,92 ✓C $= $ 9 960 ✓CA Remaining $= $ R10 000 ✓RT $-$ R9 960 ✓M $= $ R40 ✓CA		 1C conversion 1CA answer 1MA subtracting currencies 1CA simplification 1C conversion 1R rounding **OR** 1RT correct value 1C conversion 1CA answer 1RT correct value 1M subtraction 1CA answer (6)	F L2
			[31]	

MATHEMATICS LITERACY P1 (EC/SEPTEMBER 2025)

QUESTION 3 [28 MARKS]

Que.	Solution	Explanation	T&L
3.1.1	2022 ✓✓A	2A correct year (2)	D L1
3.1.2	2 ✓✓A	2A answer (2)	D L1
3.1.3	Difference = 6,883 – 5,424 ✓RT ✓MA = 1,459 thousands **OR** 1459 ✓CA **OR** Difference = 6 883 – 5 424 ✓RT ✓MA = 1 459 ✓CA	1RT reading correct values from the table 1MA subtracting correct values 1CA answer (3)	D L2
3.1.4	Total number (2023): = 8,860 + 6,765 + 5,821 + 5,689 + 4,742 + 3,871 + 3,338 + 3,274 ✓MA = 42,36 thousand ✓CA ✓RT P (United Kingdom) = $\frac{5,821 + 5,689 + 4,742}{42,36}$ = $\frac{16,252}{42,36} \times 100$ ✓M = 38,37% ✓CA	1MA correct values 1CA total 1RT correct value 1M multiplying by 100 1CA correct percentage (5)	D L2
3.1.5	Discreet ✓✓A	2A answer (2)	D L1
3.2.1	FET % = 15% +10% ✓RT ✓MA = 25% ✓A	1RT correct % 1MA adding correct % 1A correct % (3)	D L2
3.2.2	✓ RT No of learners = 780 × $\frac{20}{100}$ ✓MA = 156 learners ✓CA	1RT correct total 1MA multiplying by 20% 1CA correct answer (3)	D L2
3.2.3	Grade 8 = 780 × $\frac{30}{100}$ ✓MA = 234 learners ✓A Grade 9 = 780 × $\frac{25}{100}$ ✓MA = 195 ✓A Difference = 234 – 195 ✓MA = 39 learners ✓CA	1MA multiplying by 30% 1A correct number of grade 8 learners 1MA multiplying by 25% 1A correct number of grade 9 learners 1MA subtracting correct numbers 1CA answer (6)	D L3
		[26]	

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QUESTION 4 [26 MARKS]			
Que.	Solution	Explanation	T&L
4.1.1	Developing questions; collecting data; ✓A Organising data; Summarising data; ✓A Representing data graphically; Analyse data ✓A	1A 1st two stages 1A for 2nd two stages 1A for 3rd two stages (3)	D L1
4.1.2	Bar graph, Double bar graph, Histogram, Stacked bar graph, Scatter Plot, Line graph ✓✓✓A	3A any three correct graphs (3)	D L2
4.2.1	2022/23 fare: R14,50 2023/24 fare: R15,00 ✓RT % increase = $\dfrac{R15,00 - R14,50}{R14,50}$ × 100 ✓MA ✓M $= \dfrac{0,5}{14,5} \times 100$ = 3,45% ✓CA	1RT correct values 1MA multiplying by 100 1M dividing by R14,50 1CA answer (4)	F L2
4.2.2	✓A ✓MA 5 km × R10,00 = R50,00 ✓A 5 km × R12,50 = R62,00 5 km × R15,00 = R75,00 9,1 km × R17,00 = R154,70 = R341,70 ✓CA × 1,15 ✓M = R393,53 ✓CA Nancy's statement is correct ✓J	1A for max distances 1MA multiplying by tariff 1A 4 amounts 1CA total before VAT 1M VAT 1CA VAT inclusive 1J justification (7)	F L3
4.3.1	36,5 ✓✓A	2A correct value (2)	D L2
4.3.2	20 ✓✓A	2A correct age (2)	D L2
4.4.	BMI = $\dfrac{mass(kg)}{(Height(m))^2}$ $= \dfrac{75 \text{ kg}}{(1,71m)^2}$ ✓SF ✓C $= \dfrac{75 \text{ kg}}{2,9241 \text{ m}^2}$ ✓S = 25,6489 kg/m^2 ✓CA = 25,6 kg/m^2 ✓R	1 SF correct substituting in a formula 1 C conversion 1S squaring 1,71 1CA simplification 1R rounding (5)	D L3
		[26]	

MATHEMATICS LITERACY P1 (EC/SEPTEMBER 2025)

QUESTION 5 [31 MARKS]

Que.	Solution	Explanation	T&L
5.1	Deposit $= R12\,000 \times \frac{25}{100}$ ✓MA $= R3\,000,00$ ✓A Loan $= R12\,000,00 - R3\,000,00$ $= R9\,000$ ✓A Interest charged $= \frac{15}{100} \times R9\,000 \times 3$ years ✓MA $= R1\,350 \times 3$ $= R4\,050,00$ ✓CA Total repayment amount $= R9\,000,00 + R4\,050$ $= R13\,050$ ✓A Monthly instalment $= R13\,050,00 \div 36$ ✓MA $= R362,25$ ✓CA **OR** Loan $= 100\% - 25\% = 75\%$ ✓MA $= \frac{75}{100} \times R12\,000$ ✓M $= R9\,000$ ✓A Interest charged $= \frac{15}{100} \times R9\,000 \times 3$ years ✓MA $= R1\,350 \times 3$ $= R4\,050,00$ ✓CA Total repayment amount $= R9\,000,00 + R4\,050$ $= R13\,050$ ✓A Monthly instalment $= R13\,050,00 \div 36$ ✓MA $= R362,25$ ✓CA	1MA multiplying by 25% 1A simplification 1A loan 1MA multiplying by 3 years 1CA interest 1A total amount 1MA dividing by 36 1CA simplification **OR** 1MA subtraction 1M multiplication 1A loan 1MA multiplying by 3 years 1CA interest 1A total amount 1MA dividing by 36 1CA simplification (8)	F L4
5.2.1	South African Team Netball Results ✓A Points scored: 80, 70, 60, 50, 40, 30, 20, 10, 0 75 ✓A, 58 ✓A, 61 ✓A, 55 Game 1, Game 2, Game 3, Game 4 Number of games (4)	1A title 3A for game 1,2 and 4 bars	D L4

5.2.2	Mean $= \dfrac{55 + 58 + 61 + 75}{4}$ ✓RT ✓M $= \dfrac{249}{4}$ $= 62,25$ ✓CA Median: 55 58 61 75 ✓M $= \dfrac{58 + 61}{2}$ ✓M $= 59,5$ ✓A Difference $= 62,25 - 59,5$ ✓M $= 2,75$ The coach is correct ✓J	1RT correct values 1M dividing by 4 1CA simplification 1M arranging in ascending or descending order 1M correct values 1A simplification 1M subtracting 2 values 1J explanation (8)	D L4
5.3.1	Credit card ✓✓A	2A answer (2)	**F** **L2**
5.3.2	Total cost of comfort luxury $= R72,99 \times 2$ ✓M $=$ R145,98 ✓A Discount R45,98 ✓RT Percentage discount: $\frac{45,98}{145,98} \times 100$ ✓M $= 31,50\%$ ✓A	1 M multiply by 2 1 A total amount 1RT correct discount 1 M multiply by 100 1 A answer (5)	F L2
5.3.3	$15\% = R54,97$ $115\% = ?$ VAT inclusive $= \frac{115}{15} \times 54,97$ ✓M $= 421,44$ ✓CA Amount paid $= R421,44 - R63,50$ ✓MA $= R357,94$ ✓CA **OR** Total amount $= R1,48 + R72,99 + R72,99 + R25,99 +$ $R24,99 + R57,98 + R82,99 + R34,99 + R105,00 - (R11,98$ $+ R45,98)$ ✓MA $= R421,44$ ✓CA Amount paid $= R421,44 - R63,50$ ✓MA $= R357,94$ ✓CA	1M multiplication 1 CA answer 1MA subtracting correct amounts 1CA answer **OR** 1MA adding correct values 1 CA answer 1MA subtracting correct amounts 1CA answer (4)	F L1
5.4	Real increment $= R5,5\% - 3,0\%$ ✓MA $= 2,5\%$ ✓A	1MA subtracting correct % 1A answer (2)	F L4
		[33]	
		TOTAL: 150	