



education
MPUMALANGA PROVINCE
REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE

Stanmorephysics.com
BOHLABELA DISTRICT

MATHEMATICAL LITERACY
GRADE 10
CONTROLLED TEST
MARCH 2025

MARKS: 50

TIME: 1 HOUR

These question paper consists of 7 pages including the answer sheet.

INSTRUCTIONS AND INFORMATION

1. This question paper consists of THREE questions. Answer ALL the questions.
2. Number your answers correctly according to the numbering system used in this question paper.
3. Use the attached ANSWER SHEET to answer QUESTION 2.1.5
4. Write your name and grade in the spaces provided on the ANSWER SHEET and hand in with your Script
5. Start EACH question on a NEW page.
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. Write neatly and legibly.

QUESTION 1

1.1 Karabo is planning a small family gathering this weekend and needs to buy a few essential grocery items. She notices a special sale on line. The picture below shows the items on special.



<https://my-catalogue.co.za/woolworths-specials>

Use the information above to answer the questions that follow.

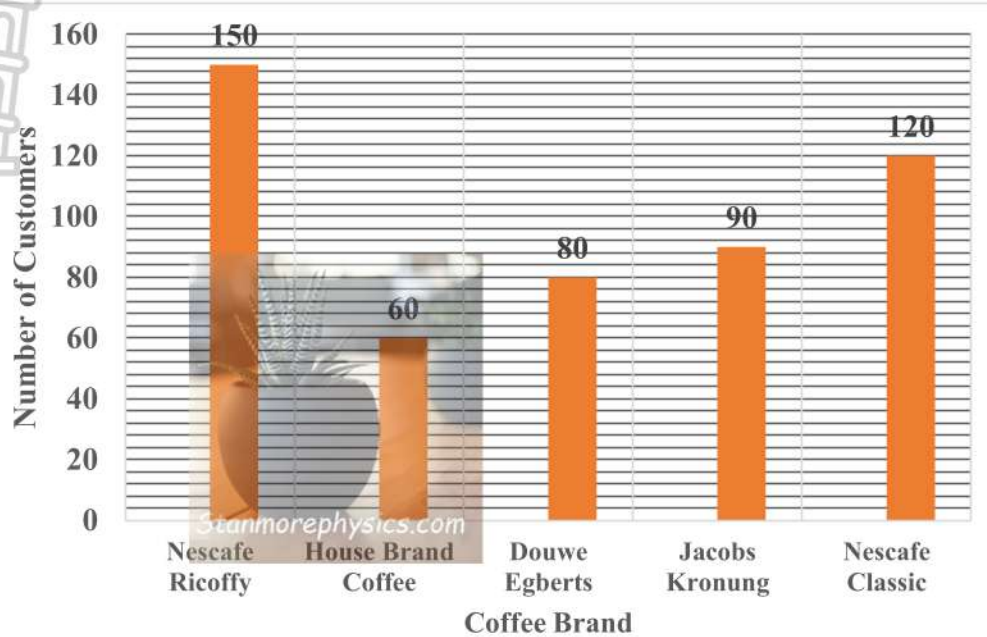
- 1.1.1 Which media platform was used to advertise the sale? (2)
 - 1.1.2 Karabo buys 2 packs of 2kg Tastic Rice, 1 Nescafe Ricoffy 750g and 1 Nescafé Classic 200g. Calculate the total cost of the items. (3)
 - 1.1.3 Write down the cost of Nescafe Classic 200g in words. (2)
 - 1.1.4 Calculate the percentage discount received on Nescafé Ricoffy 750g. (3)
- 1.2 TABLE 1 below shows the cost rates Karabo’s mother saw for the price of potatoes from two supermarkets.

TABLE 1: COST RATES

Supermarket A	Supermarket B
R20 per 4,5kg	1.8kg packet per R8

Show by calculations that the cost per kg is R4.44 for both supermarkets. (3)

1.3 A local supermarket conducted a survey on customer preferences for different coffee brands over a month. The results were recorded and presented in a bar graph showing the number of customers who purchased each brand.



www.education.gov.za

Use the information above to answer the following questions

- 1.3.1 Identify the type of a graph shown above. (2)
- 1.3.2 Identify the coffee brand that had the highest number of sales? (2)
- 1.3.3 If a total of 500 customers participated in the survey, write down the number of customers that represent the sample space. (2)

[19]

QUESTION 2

2.1 Mandla earns R60 per hour at a part-time job. Below is the table showing the number of hours he worked.

TABLE 2:

No. of hours worked (n)	1	2	3	5	8	10
Salary earned (R)	60	120	A	300	480	600

Use the table above to answer the questions that follow.

2.1.1 Complete the table by calculating the value of A. (2)

2.1.2 Identify the independent variable. (2)

2.1.3 What happens to Mandla's earnings when he works more hours? (2)

2.1.4 Write down the equation that represents this relationship in the form : **Salary (R) =** (2)

2.1.5 Use the provided answer sheet to draw the graph that represents the information given in TABLE 2 above. (4)

2.2 A bakery supplies fresh bread and muffins to a local supermarket. The items are packed in different units of measurement:

- Bread loaves are sold in packs 12.
- Muffins are sold in boxes of 24

The bakery receives an order from the supermarket for:

- $5\frac{1}{2}$ dozen bread loaves
- 2 boxes of muffins

Use the information above to answer the questions that follow.

2.2.1 Convert the bakery order into actual item counts for bread loaves and muffins. (5)

2.2.2 If Each loaf requires $\frac{1}{2}$ kg of flour and the flour costs R12 per kg, the baker claims that the total flour cost for the bread order will be R396, 00. Verify, through calculations whether his claim is correct. (3)

[20]

QUESTION 3

Mr Mashego wants to select boys who will represent the school in the 7km trial runs. He asked two best learners to record their finishing times during training. TABLE 3 below shows their times taken during their 7km trial run.

TABLE 3: TIME TAKEN FOR A 7KM TRIAL RUN

Phetolo 's time(in m)	35	32	31	32	32	31	30	29	32	30
Kondile's time(in m)	30	31	32	33	33	34	34	35	35	35

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

- 3.1 State whether the given data is Numerical or Categorical. (2)
- 3.2 Identify the mode of time recorded by Kondile. (2)
- 3.3 Identify Phetolo's median time. (3)
- 3.4 Kondile states that his mean time was less than 33. Verify, whether his statement is correct. (4)

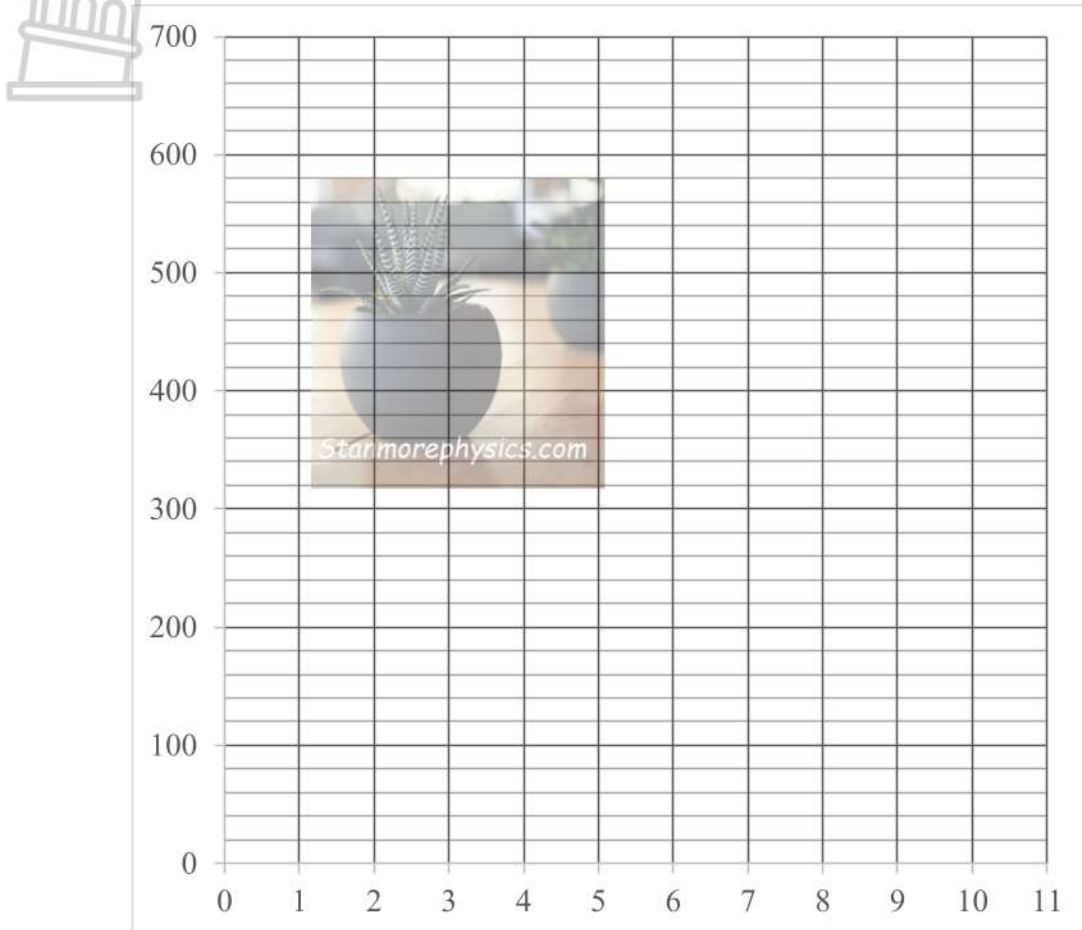
[11]

TOTAL: 50

QUESTION 2.1.5

NAME: _____

GRADE: _____





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MARKS: 50

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

These marking guideline consists of 5 pages



- If a candidate answers a question TWICE, only mark the FIRST attempt.
- If a candidate has crossed out (cancelled) an attempt to a question and NOT redone the solution, mark the crossed out (cancelled) version.
- If the candidate presents any extra solution when reading from a graph, table, then penalize for every extra incorrect item presented.

QUESTION1 [19 MARKS]			
Ques	Solution	Explanation	T & L
1.1.1	TV RT 	2RT correct reading from the catalogue (2)	F L1 E
1.1.2	MA (R28,99 × 2) + R94,99 + R84,99 = R237,96 RT MA Stanmorephysics.com	1MA multiplying correct values 1RT all values 1A simplification AO (3)	F L1 M
1.1.3	Eighty four rand ninety nine cents MA	CA from 1.1.2 2A correct answer (2)	F L1 E
1.1.4	Original price = R94,99 + R5 = R99,99 MA $\% \text{discount} = \frac{5}{99,99} \times 100$ M = 5,00050005% = 5% CA	1MA adding correct values 1M % calculation 1CA simplifying (3)	F L3 E
1.2	MA Supermarket A = $\frac{20}{4.5}$ = R4,44 /kg Supermarket B = $\frac{8}{1.8}$ MA = R4,44/kg MA	1M Dividing by 4,5 1M dividing by 1.8 1A Unit price per kg supermarket B (3)	F L2 E
1.3.1	Single Bar graph MA	2A correct graph Accept Bar graph (2)	D L1 E

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1.3.2	Nescafe Ricoffy RT	2RT correct brand (2)	D L1 E
1.3.3	500 A	2A correct answer (2)	D L1 E
		[19]	

QUESTION 2 [20 MARKS]			
Ques	Solution	Explanation	T & L
2.1.1	A = 180 A	2A correct answer (2)	F L2 E
2.1.2	No. of hours worked A	2A correct answer (2)	F L1 E
2.1.3	His earnings increase A	2A correct answer (2)	F L2 E
2.1.4	Salary(R) = 60 × n, where n represents the number of hours worked A	1A 60 × n 1A explanation (2)	F L2 E
2.1.5			F L2 M

NSC-marking guidelines

Ques	Solution	Explanation	T and L
1A (1:60) 1A any other point 1CA joining points 1A (10:600) (4)			
2.2.1	$5 \text{ dozen} = 12 \text{ loaves} \times 5$ $= 60 \text{ loaves}$ <input type="checkbox"/> MA $\frac{1}{2} \text{ dozen} = 6 \text{ loaves}$ <input type="checkbox"/> MA $5\frac{1}{2} \text{ dozen bread loaves} = 66 \text{ loaves}$ <input type="checkbox"/> MCA $2 \text{ boxes} = 24 \text{ muffins} \times 2$ $= 48 \text{ muffins}$ <input type="checkbox"/> MA $\text{Total items} = 114$ <input type="checkbox"/> CA	1MA multiplying 12 by 5 1MA dozen concept 1MCA total no. of loaves 1MA total no. of muffins 1CA answer (5)	F L3 D
2.2.2	$1 \text{ kg} = \text{R}12,00$ $\frac{1}{2} \text{ kg flour} = \text{R}6,00$ <input type="checkbox"/> MA $\frac{1}{2} \text{ kg flour} = 1 \text{ loaf}$ $5\frac{1}{2} \text{ dozen bread loaves} = 66 \text{ loaves}$ <input type="checkbox"/> MCA $66 \times \frac{1}{2} \text{ kg flour} = 66 \times \text{R}6,00$ $= \text{R}396,00$ His claim is correct <input type="checkbox"/> CA OR $5\frac{1}{2} \text{ dozen bread loaves} = 66 \text{ loaves}$ $66 \times \frac{1}{2} \text{ kg flour} = 33\text{kg}$ <input type="checkbox"/> MA	CA from 2.2.1 1MA dividing R12 by 2 1MCA multiplying correct values 1CA answer 1MA multiplying 66 by $\frac{1}{2} \text{ kg}$ 1MCA multiplying by	F L4 D

NSC-marking guidelines

33kg x R12,00 /kg = R396,00 His claim is correct. CA	12 1CA answer (3)	
		[20]

QUESTION 3 [11 MARKS]			
Ques	Solution	Explanation	T and L
3.1	Numerical CA	2A correct answer (2)	D L1 E
3.2	35 RT	2RT correct mode (2)	D L1 E
3.3	29; 30; 30; 31; 31; 32; 32; 32; 32; 35 RT Median = $\frac{31+32}{2}$ M = 31,5 CA	1RT all values 1M concept 1CA answer (3)	D L2 M
3.4	Mean = $\frac{30+31+32+33+33+34+34+35+35+35}{10}$ MA = $\frac{332}{10}$ MA = 33,2 A His statement is incorrect CA	1MA adding all values 1MA dividing by 10 1A simplifying 1CA opinion (4)	D L4 E
			[11]