



LIMPOPO

PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
EDUCATION

CAPRICORN SOUTH

MATHEMATICAL LITERACY

CONTROLLED TEST 02

GRADE 10

DATE: 26 SEPTEMBER 2025

MARKS: 50

This question paper consists of 06 pages including the cover page.

INSTRUCTION AND INFORMATION

1. This question paper consists of FOUR questions. Answer ALL the questions.
2. Number the questions correctly according to the numbering system used in this question paper.
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. Write neatly and legibly.



QUESTION 1 [10]

In TABLE 1 below is a list of explanations and definitions of concepts used in Mathematical Literacy.

TABLE 1: USE THE TABLE BELOW TO MATCH COLUMN A WITH COLUMN B

1.1	Capacity	A. Shows the design and dimensions of the outside of a building from a side view.
1.2	Elevation Map	B. It is a percentage charged or rewarded for the money borrowed or invested
1.3	Floor plan	C. It is calculated only on the principal amount of money invested or borrowed
1.4	Interest Rate	D. It is used when measuring how much fluid fits inside a container
1.5	Simple Interest	E. A two-dimensional view of a building from above. It is sometimes referred to as a bird's eye view.

[10]

QUESTION 2 [11]

The advertisement of a retail shop shows the picture of 76 INCH PLASM CURVE that was placed on sale.

ON SALE: 76 INCH PLASMA CURVE



OPTION 1
Deposit : R 3 120
Monthly installments of R 712, 48 for five years.

OPTION 2
Cash Price: R 31 200

NB: VAT is calculated at 15%

Use the information on the slip above to answer the questions that follow:

- 2.1 Write down the deposit amount in words. (2)
- 2.2 Convert the number of years for Option 1 to months. (2)
- 2.3 Calculate the cost price of the Plasma TV (excluding VAT) for option 2. (3)
- 2.4 Calculate the total amount to be paid after 5 years on Option 1 (4)

You may use the formula:

Total amount = Deposit + (monthly instalment × the number of years)

[11]

QUESTION 3 [07]

Mr. Masondo is a farmer at Vumankala. He sells milk which is stored in cylindrical and spherical containers that are sold to customers in 2l, 5l, 10l, 20l and 25l.

PICTURES OF MILK CONTAINERS

Cylindrical container
Spherical container



Height = 780 mm

Radius = 72,6 cm

Volume of a cylinder = $3,142 \times \text{radius}^2 \times \text{height}$

Volume of a sphere = $\frac{4}{3} \times \pi r^3$

Use the information above to answer the questions that follow:

- 3.1 Convert 780 mm to meters. (2)
 - 3.2 If the radius of spherical container is 72,6 cm, calculate the diameter. (2)
 - 3.3 Calculate the Volume in cm^3 of the spherical container. (3)
- [7]**

QUESTION 4 [22]

4.1

Two oceans is one of the best worldwide marathons which takes place annually. The map below shows this two Oceans marathon. Study the below and answer the following questions.



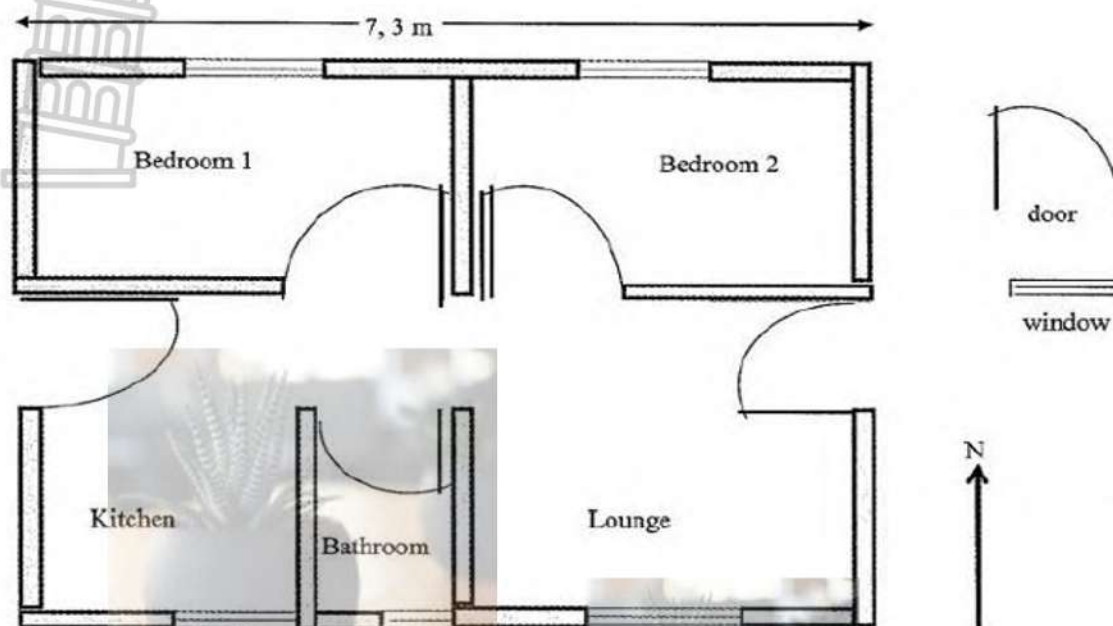
Source: PQP

Use the information above to answer the questions that follow:

- 4.1.1 Determine the number of water points in this map. (2)
- 4.1.2 Calculate the difference in kilometres between the second water point and the fishing point (3)
- 4.1.3 Calculate the number of metres in Two Ocean marathon. (2)
- 4.1.4 Give a reason why there are medics available in this map (3)

4.2

Roseline owns a company that was hired to build RDP houses for 100 families. Below is the floor plan of one of the RDP houses that were build.



Use the plan above to answer the questions that follow: -

- 4.2.1 Give the general direction of bedroom 1 from the lounge. (2)
- 4.2.2 Write down the number of windows (excluding the Bathroom) to the number of doors as a unit ratio 1: (3)
- 4.2.3 The actual length of the house is 7,3m and on the plan it is 133mm. Determine the scale used in the form of 1 : (4)
- 4.2.4 If the width of the house is 7.1m. Calculate the area (to the nearest whole number) covered by the house (3)

You may use the following formula: **Area of a rectangle = Length $\times$ width**

[22]

GRAND TOTAL: 50