education
MPUMALANGA PROVINCE
REPUBLIC OF SOUTH AFRICA

MGWENYA CIRCUIT

NATIONAL SENIOR CERTIFICATE

GRADE 12

MATHEMATICAL LITERACY

BASELINE TEST

JULY 2026

MARKS: 50

TIME: 1 HOUR

This question paper consists of 8 pages including cover page.

INSTRUCTIONS AND INFORMATION

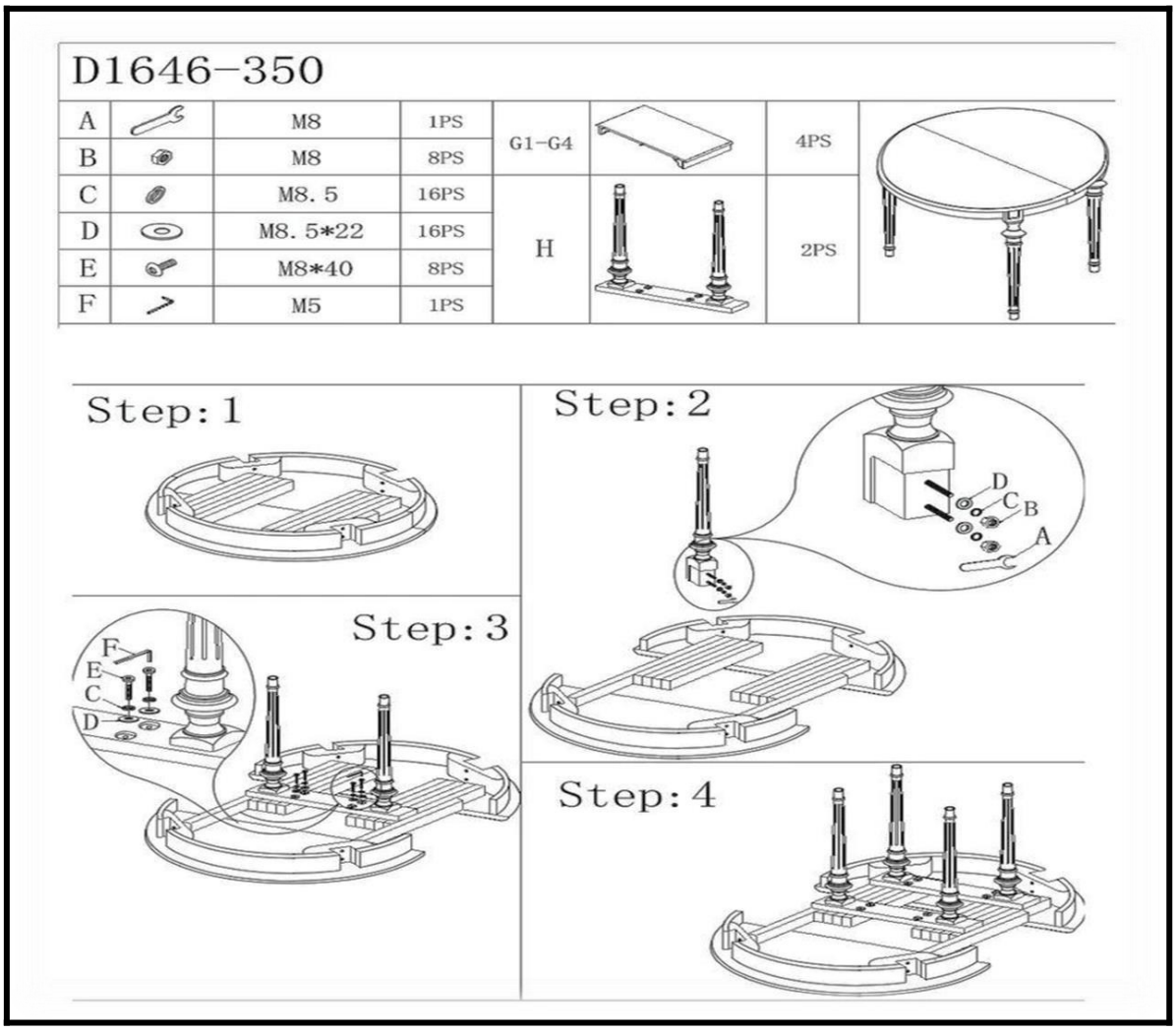
1. This question paper consists of **THREE** questions. Answer **ALL** the questions.
2. Use the ANNEXURE at the end of the Question paper for the following questions:

   ANNEXURE A for QUESTION 2.1 & QUESTION 3.1
3. Number the answers correctly according to the numbering system used in this question paper.
4. Start EACH question on a NEW page.
5. You may use an approved calculator (non-programmable, non-graphical), unless stated otherwise.
6. Show ALL calculations clearly.
7. Round off ALL final answers appropriately according to the given context, unless stated otherwise.
8. Indicate units of measurement, where applicable.
9. Maps and diagrams may not be drawn to scale, unless stated otherwise.

Write neatly and legibly

QUESTION 1

1.1 The diagram below shows the assembly of a piece of furniture and number items required for assembly



1.1.1 Identify the piece of furniture being assembled. (2)

1.1.2 Write down the name(s) of tools used to assembly the furniture. (2)

1.1.3 Determine the total number of items to be assembled to make the piece of furniture. (2)

1.1.4 Which of the step (1, 2, 3, and 4) fits the instruction, Flip over the part-assembly? (2)

[8]

QUESTION 2

2.1 The Mashele family, a newly married couple live in Nelspruit and plan to buy a holiday house. The floor plan of the house is shown on ANNEXURE A

Study the floor plan on ANNEXURE A to answer the questions that follow.

2.1.1 Define the term "*floor plan* "according to the context. (2)

2.1.2 Mrs Mashele claimed that Bedroom 2 gets more sunlight. State whether the claim is VALID, support with a reason (3)

2.2 Mr Mashele bought a 2-litre bucket of carpet tile adhesive. Use the picture and the information below to answer the questions that follow

PICTURE OF PAINT TIN



:

you may use the formulae:

Circumference $= 2\pi r$

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

2.2.1 Determine the radius of bucket (2)

2.2.2 A seal tape is used to secure the lid of the bucket. Show that the circumference of the seal tape is 50,272 cm (2)

2.2.3 Determine the height to nearest ten of the adhesive in the bucket. (5)

NOTE: 1 litre = 1 000cm^3

[14]

QUESTION 3

3.1

The Mashele family wants to renovate the house and decide to carpet both bedrooms.

- Carpet tiles dimensions 60 cm x 60 cm each
- 9 pieces in a box
- R 874,00 per box VAT inclusive.

The floor plan of the house is shown on ANNEXURE A.

3.1.1 Calculate the area of one carpet tile in m^2. (3)

3.1.2 Determine the length of bedroom 1 in metres (5)

NOTE: 10'6" represent 10 feet and 6 inches

1 foot = 30,48cm
1 cm = 0,394 inch

3.1.3 Calculate in m^2 the total area of the bedrooms. (6)

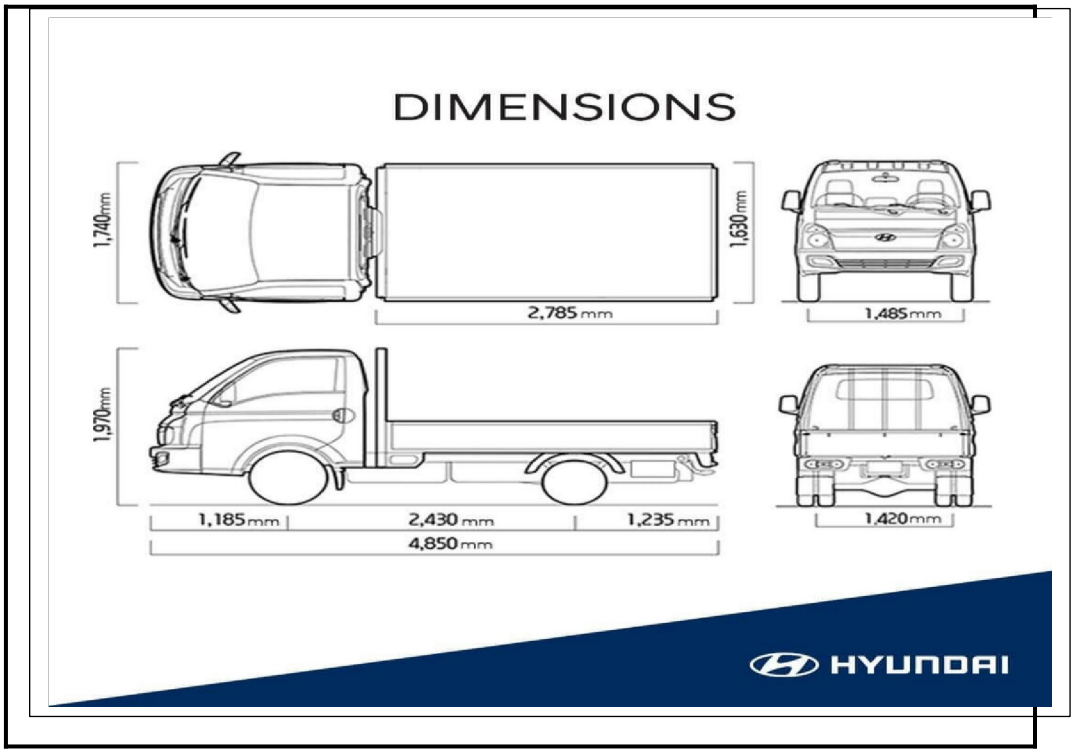
Area = length × width

3.1.4 The tiler stated that the cost of the boxes of tiles is more than R5 200. (6)

Verify if the statement is VALID.

3.2 The manufacturer packs the carpet tiles in boxes. The boxes are transported by a truck to the storage facility.

PICTURE OF A TRUCK TO TRANSPORT BOXES OF CARPET TILES WITH DIMENSIONS.



Length of truck = 2 785 mm	**Height of the back of a truck = 70 cm**
Width of truck = 1 630 mm	

PICTURE OF A BOX OF CAPERT TILES



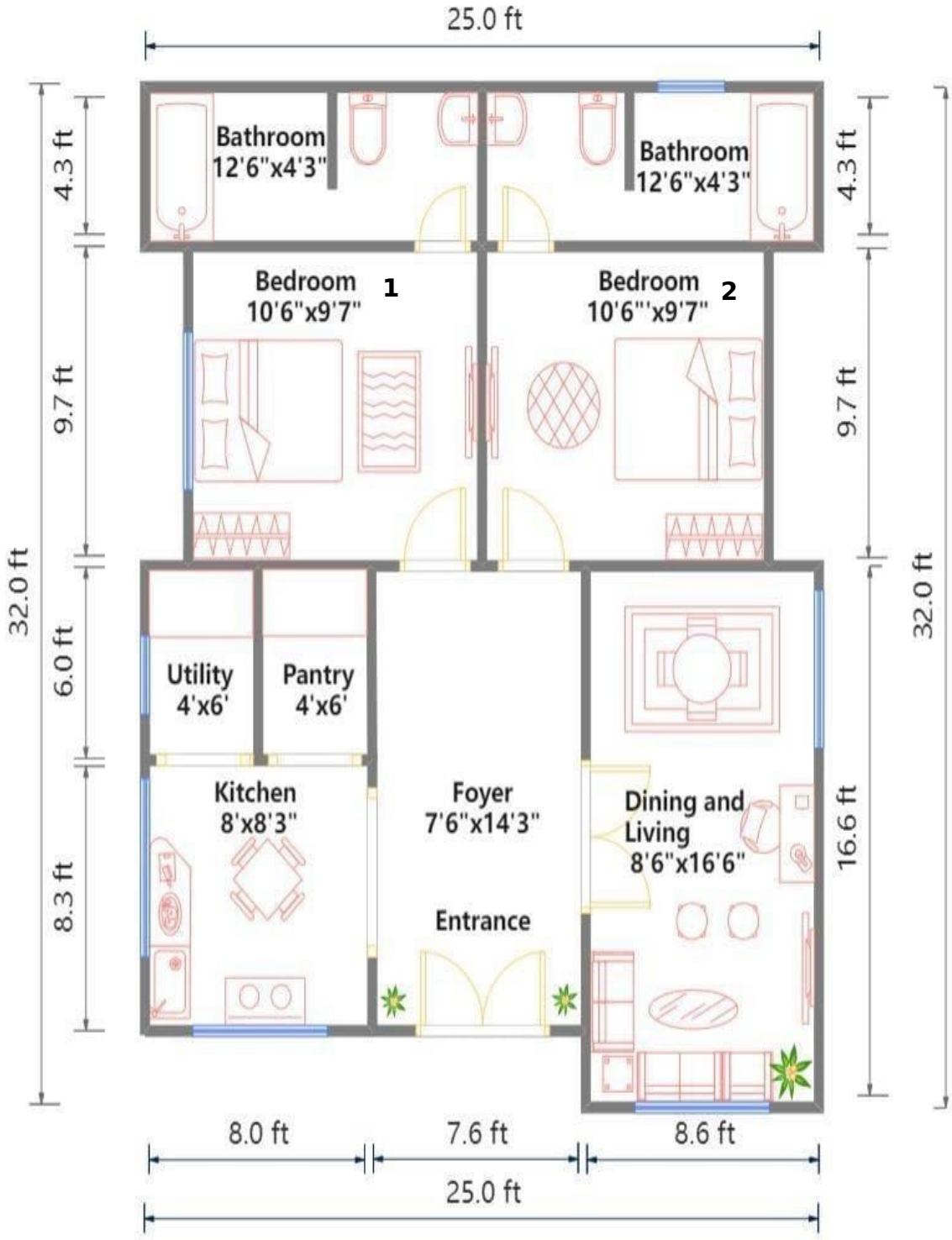
DIMENSIONS OF THE BOX	
Side =61cm	
Height = 22cm	

Mr Mashele claimed that the truck will transport 24 boxes of tiles. (8)
Verify the claim with calculations.

[28]

TOTAL MARKS: 50

ANNEXURE A: FLOOR PLAN OF A HOUSE.


25.0 ft
Bathroom
12'6"x4'3"
Bathroom
12'6"x4'3"
4.3 ft
4.3 ft
Bedroom 1
10'6"x9'7"
Bedroom 2
10'6"'x9'7"
9.7 ft
9.7 ft
32.0 ft
32.0 ft
6.0 ft
Utility
4'x6'
Pantry
4'x6'
Kitchen
8'x8'3"
Foyer
7'6"x14'3"
Entrance
Dining and
Living
8'6"x16'6"
16.6 ft
8.3 ft
8.0 ft
7.6 ft
8.6 ft
25.0 ft