KWAZULU-NATAL PROVINCE
EDUCATION
REPUBLIC OF SOUTH AFRICA

PROVINCIAL STANDARDISED ASSESSMENT

GRADE 12

MATHEMATICAL LITERACY P2

JUNE 2026

MARKS: 100

TIME: 2 hours

This question paper consists of 9 pages and a 13-page Special Answer Book.

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INSTRUCTIONS AND INFORMATION

1. This question paper consists of FOUR questions. Answer ALL the questions.
2. Answer ALL the questions in the SPECIAL ANSWER BOOK provided.
3. You may use an approved calculator (non-programmable and non-graphical), unless stated otherwise.
4. Show ALL calculations clearly.
5. Round off ALL final answers appropriately according to the given context, unless stated otherwise
6. Indicate units of measurement, where applicable.
7. Maps and Diagrams are NOT necessarily drawn to scale, unless stated otherwise.
8. Write neatly and legibly.

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QUESTION 1

1.1

The Blue Train is a famous luxury train in South Africa that started operating in 1923. Shown below is one of the routes undertaken by the train, travelling from Pretoria to the Kruger National Park and back.

BLUE TRAIN 2026
PRETORIA - KRUGER NATIONAL PARK

25 - 27 June 2026
***Return trip rates only**

DEPARTURE	ARRIVAL
DAY 1: Pretoria 13:00 (pm)	DAY 2: Kruger National Park 05:00 (am)
DEPARTURE	ARRIVAL
DAY 2: Kruger National Park 22:00 (pm)	DAY 3: Pretoria 18:00 (pm)

Luxury Double: Rate per person sharing	R 92 335.00	**De Luxe Double:** Rate per person sharing	R 74 275.00
Luxury Single: Occupancy rate +50%		**De Luxe Single:** Occupancy rate +50%	



*Terms and conditions are deemed to be accepted upon confirmation of booking.

[Source: luxurytrainsouthafrica.com]

Use the information above to answer the questions that follow.

1.1.1 Determine the number of years the Blue Train has been in operation. (2)

1.1.2 Write the departure time for Day 1 in the 12-hour time format. (2)

1.1.3 Calculate the duration of the trip on Day 1 on route to the Kruger National Park. (2)

1.1.4 The distance from the Kruger National Park to Pretoria is 385 km. Write down which ONE of the methods below is the correct method to calculate the speed of the train on its return journey to Pretoria.

Write only the letter (A-C) next to the question number (1.1.4)

A $\frac{385}{20}$

B $\frac{385}{17}$

C $\frac{385}{16}$ (2)

1.1.5 Twenty-seven couples booked the luxury double option. Calculate the total amount paid for the trip. (3)

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1.2 The route of the Blue Train from Pretoria to Kruger National Park, as well as the route from Johannesburg to Cape Town, is shown on ANNEXURE A in the ANSWER BOOK. At the end of the trip, passengers fly back to Johannesburg from Cape Town.

Use ANNEXURE A and the information above to answer the questions that follow.

1.2.1 Name the type of scale used on this map. (2)

1.2.2 Explain what the scale on the map represents (2)

1.2.3 The distance from Johannesburg to Cape Town is 1 397 km. Convert this distance to centimetres. (2)

1.2.4 If a traveler covers 700 km per day from Johannesburg to Cape Town, calculate how many days the journey will take. (2)

1.2.5 Determine the number of nights spent on the train during the trip, as shown on ANNEXURE A. (2)

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QUESTION 2

2.1 ANNEXURE B in the ANSWER BOOK shows the top view of a house floor plan. The dimensions are given in feet.

NOTE: 1 foot -= 30,48cm

Use ANNEXURE B and the information above to answer the questions that follow.

2.1.1 Determine the number of windows shown on the floor plan. (2)

2.1.2 Identify the rooms of the house that receive the afternoon sun. (2)

2.1.3 State whether the door opens to the (left/right) as you enter the living room (2)

2.1.4 Convert the width of the floor plan from feet to centimetres. (2)

2.1.5 Use your answer from Question 2.1.4 to determine the number scale of the floor plan. Round your answer to the nearest whole number. (4)

2.2 A tourist travels from Cape Town to Port Elizabeth and makes two stops along the route. The route from Cape Town to Port Elizabeth is shown on the strip map on ANNEXURE C in the ANSWER BOOK.

Use ANNEXURE C and the information above to answer the questions that follow.

2.2.1 List the national roads shown on the map. (3)

2.2.2 Explain the difference between a national road and a regional road. (2)

2.2.3 A tourist travelling from Cape Town to Port Elizabeth stops at the town closest to the halfway point. Identify the town where he stopped and the distance, he travelled to reach it. (2)

2.2.4 The tourist then visits St Francis Bay. Determine the distance in kilometres from the halfway stop to St Francis Bay. (3)

2.2.5 The tourist stated that he travelled a total distance of 1 602 km after visiting St Francis Bay and Port Elizabeth and returning to Cape Town the next day.

Verify, with calculations, whether the statement is VALID. (3)

[25]

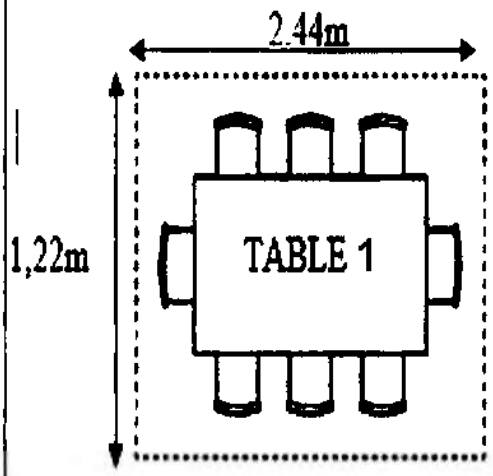
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QUESTION 3

3.1 An event planner is arranging seating according to the layout plan shown below for a party at a venue. The diagram illustrates the dimensions of one table with chairs, as well as the top view of the seating plan.

NOTE: A 1 metre space is left between tables along both the length and the width of each table.

DIMENSION OF TABLE WITH CHAIRS



TOP VIEW OF SEATING PLAN

1m space

TABLE 1	TABLE 9	TABLE 17
TABLE 2	TABLE 10	TABLE 18
TABLE 3	TABLE 11	TABLE 19
TABLE 4	TABLE 12	TABLE 20
TABLE 5	TABLE 13	TABLE 21
TABLE 6	TABLE 14	TABLE 22
TABLE 7	TABLE 15	TABLE 23
TABLE 8	TABLE 16	TABLE 24

1m space

[Source: www.dimensions.com]

Use the images and the information above to answer the questions that follow.

3.1.1 Calculate the number of people that can be seated at the venue. (2)

3.1.2 Determine the total length and the total width of the seating plan. (6)

3.1.3 Calculate the perimeter of the seating plan.

You may use the following formula:

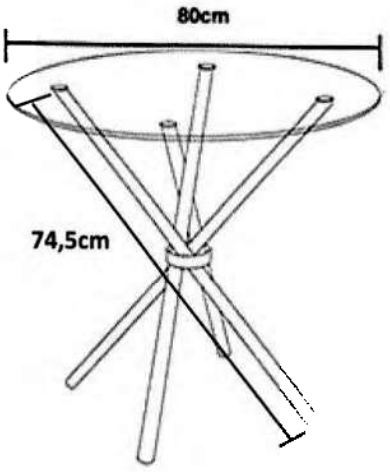
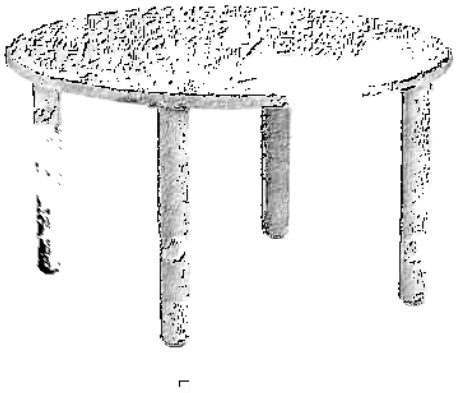
Perimeter of a rectangle = 2 (length + width) (2)

3.1.4 Determine the probability, expressed as a percentage, that 180 people will attend the party. (3)

3.1.5 Determine the probability, expressed as a decimal fraction rounded to two decimal places, that the party will be held on a Friday. (3)

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3.2 A carpenter intends to use the dimensions of the glass table to construct a wooden table, as shown in the image below. The dimensions of the wooden table will be increased by 20% based on those of the glass table.

CIRCULAR GLASS TABLE	CIRCULAR WOODEN TABLE
 **NOTE:** Diameter = 80cm Height of the table legs = 74,5cm	

[Source: https://bit.ly/4vWYOAN]

Use the images and the information above to answer the questions that follow.

3.2.1 Determine the radius, in centimetres, of the wooden table. (4)

3.2.2 Calculate the area of the wooden tabletop in m^2.

You may use the formula:

Area of a circle = 3,142 × radius^2 (4)

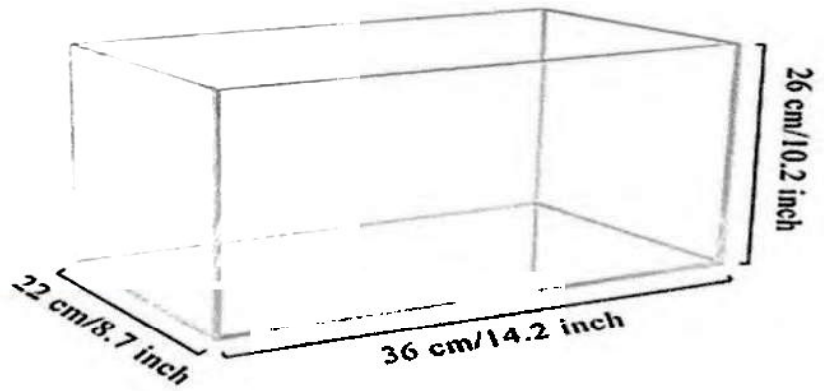
3.2.3 The wooden table legs are sold in lengths of 1,5 m. Determine the number of lengths that must be purchased. (4)

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QUESTION 4

4.1 A pet shop sells open-top glass fish tanks, as shown in the image below.



NOTE: 1 inch = 2,54cm

Use the image and the information above to answer the questions that follow.

4.1.1 Determine the surface area of the fish tank in cm^2.

You may use the formula:

Surface Area = 2 (Length x Width) + 2 (Length x Height) + 2 (Width x Height) (3)

4.1.2 A glass sheet measuring 3210 mm × 2250 mm is ordered to make the fish tanks. If the thickness of the glass is 0,236 inches, determine the weight of the glass sheet in kilograms.

You may use the formula;

Weight of glass = Length in metres × Width in metres × Thickness in metres × 2 500 (6)

4.1.3 The owner of the pet shop states that 18 fish tanks can be cut from the glass sheet that was ordered.

Verify, with calculations, whether this statement is VALID.

You may use the formula:

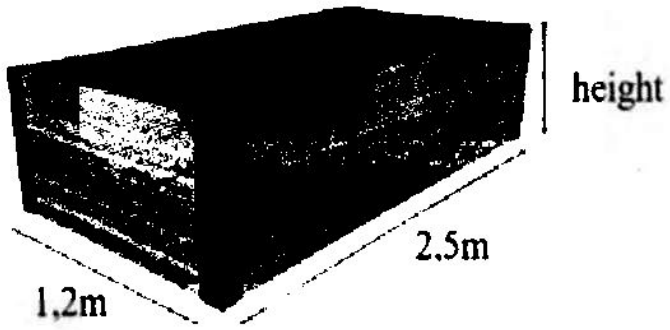
Area = L × W (5)

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4.2

The image below shows a vegetable planter box with a volume of 500 litres.

VEGETABLE PLANTER BOX



[Source: https://bit.ly/4vRmlTw]

NOTE: 1 litre = 1 000cm^3

Use the image and the information above to answer the questions that follow.

4.2.1 Explain the difference between volume and capacity in the context shown above. (2)

4.2.2 The height of the vegetable planter box is 17cm.

Verify, showing all calculations, if this claim is **CORRECT**.

You may use the formula:

Volume = length × width × height (6)

4.2.3 One ton of soil is approximately 750 litres. Determine the number of kilograms of soil required to fill the vegetable planter box. (4)

[26]

TOTAL: 100

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