



LIMPOPO

PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
EDUCATION

MOPANI EAST DISTRICT

MATHEMATICAL LITERACY

GRADE 11

TEST 2 (Task 6)

September 2024

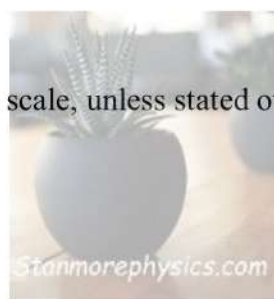
MARKS: 55

WEIGHT: 20%

DURATION: 1 Hour

INSTRUCTIONS AND INFORMATION

1. This question paper consists of THREE questions. Answer ALL the questions.
2. Number the questions correctly to the numbering system used in this question paper.
3. Round off ALL final appropriately according to the given context, unless state otherwise.
4. You may use an approved calculator (non-programmable and non-graphical), unless stated otherwise.
5. Show **ALL** calculations clearly.
6. Indicate units of measurements, where applicable.
7. Write neatly and legibly.
8. Maps and diagrams are **NOT** necessarily drawn to scale, unless stated otherwise.



QUESTION 1

1.1

Ms Naidoo is a street vendor, selling vegetables at a local Taxi Rank. She pays rent of R100 per week for the space she is using. She buys 5 bags of potatoes per week from the local farmer at R125,00 per bag. Each bag has a maximum of 150 potatoes. She then repacks the potatoes into small packs of 5 potatoes per pack and sells them. The pictures below show a potato bag and a small pack.

Source www.alamy.com

Use the information given above to answer questions that follow.

- 1.1.1 Define the term *cost price* according to the given context. (2)
- 1.1.2 Calculate the total amount Ms Naidoo paid for the 5 bags of potatoes. (2)
- 1.1.3 If ONE pack of potatoes weighs about 2,38 kg. Convert the weight of one pack into grams. (2)
- 1.1.4 Determine how many small packs will Ms Naidoo Snyman be able to pack from the five bags. (3)
- 1.1.5 Calculate Ms Naidoo's monthly cost (ignore costs for the other vegetables). (4)

1.2

Seko Khumalo borrowed R60 000 from ABC Bank to start his small business. He agreed to pay back the money at an interest rate of 8, 5% p.a, compounded annually for 2 years.

- 1.2.1 Differentiates between the interest *rate*, and *interest*. (4)
- 1.2.2 Seko claims that the amount of interest paid back will only be R10 500. Verify showing ALL calculations whether his claim is valid or not. (8)

[25]

QUESTION 2

The Maboko family lives in Johannesburg and are planning to take a trip to Durban during the festive season. The distance from Johannesburg to Durban is 564 km. The map of South Africa below shows the possible National roads they are likely to use when traveling to Durban.



Use the map and the information given above to answer the questions that follow:

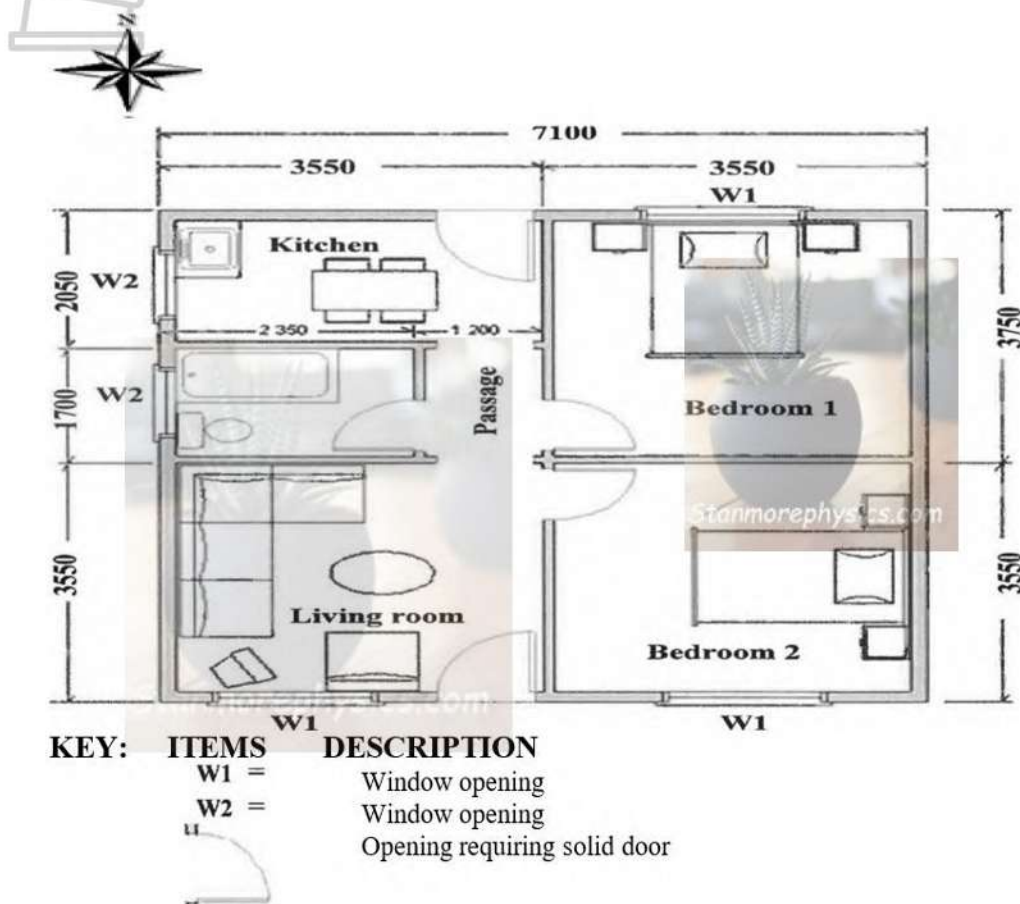
- 2.1 Write down the general position of Durban from Johannesburg. (2)
- 2.2 Name the national road the family can use to travel from Johannesburg to Durban. (2)
- 2.3 Write two advantages of using national roads. (4)
- 2.4 How many national roads are found on the map? (2)
- 2.5 Sister Lebo Maboko stated that it will take them approximately 4 hours 20 minutes to travel from home to Durban. Determine the average speed (in km/h) they will be travelling at from home to Durban. (4)
The following formula may be used: Distance = speed
- 2.6 The family car they will use has a petrol consumption of 7, 6 litres/100 km. Calculate the number of litres of petrol they will use for the return trip. (4)

[18]

QUESTION 3

The RDP houses are built to assist low income people with proper houses. Ms Baker du Toit visited Tzaneen Unit B to check the progress of the construction of his parents' home. The measurements of the house are given in mm.

FLOOR PLAN OF A HOUSE



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

- 3.1 Write down the number of interior doors shown on this floor plan. (2)
- 3.2 Give the general direction of Bedroom 1 from the living room. (2)
- 3.3 Name the room that has the same floor area with Bedroom 2. (2)
- 3.4 Mention the rooms that are on the Western side on the floor plan. (3)
- 3.5 Show with calculations that the Area of Bedroom 1 is 13,3125m². (3)
You may use the formula: **Area = length × breath**

[12]

TOTAL MARKS = 55