KWAZULU-NATAL PROVINCE
EDUCATION
REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE

GRADE 10

MATHEMATICAL LITERACY P2

JUNE EXAMINATION

2025

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MARKS: 50

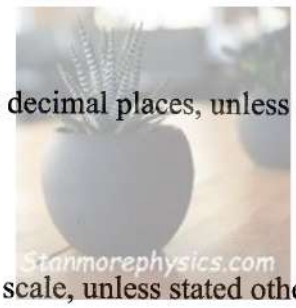
TIME: 1 hour

This question paper consists of 6 pages and an addendum with 1 annexure.

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INSTRUCTIONS AND INFORMATION

1. This question paper consists of FOUR questions. Answer ALL the questions.
2. Use ANNEXURE A in the addendum to answer QUESTION 4.
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 and non-graphical), unless stated otherwise.
6. Show ALL calculations clearly.
7. Round off ALL final answers appropriately to two decimal places, unless stated otherwise.
8. Indicate units of measurement, where applicable.
9. Maps and diagrams are NOT necessarily drawn to scale, unless stated otherwise.
10. Write neatly and legibly.



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QUESTION 1

1.1 Zenande makes her own porridge every morning before she leaves for school. She needs water, mealie meal, sugar and margarine to make this porridge. The table below shows the ingredients and conversion factors between millilitres (ml) and grams (g) for certain ingredients used in cooking.

Table 1: Conversion table

	Ingredients			
Margarine	0,375g	0,95g	7,5g	18,75g
Mealie meal	3g	6g	45g	120g
Sugar	0,3g	0,75g	6g	15g
Amount of porridge made	**5 ml**	**12,5 ml**	**100 ml**	**250 ml**

Note: 1 cup = 250 ml
1 tablespoon = 12,5 ml
1 teaspoon = 5 ml

[Adapted from www.allrecipes.com

Use the information above to answer the questions that follow.

1.1.1 The porridge has to simmer (cook slowly) on a low heat for $\frac{1}{3}$ of an hour. Write this time in minutes. (2)

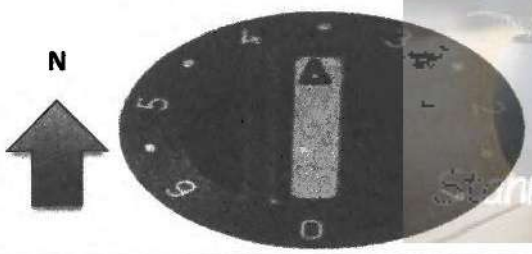
1.1.2 Determine the number of grams of sugar contained in 100 ml of porridge. (2)

1.1.3 Zenande has a 2,5 kg bag of mealie meal. Convert 2,5 kg to grams. (2)

1.1.4 Write as a simplified ratio the amount of margarine to the amount of mealie meal, that will make 100 ml of porridge. (2)

1.1.5 Write down the probability of sugar being one of the ingredients in words. (2)

1.2 The picture below shows the control knob of the stove plate on which Zenande boils the water.



Key:

0 is off
1 is the lowest setting
6 is the highest setting

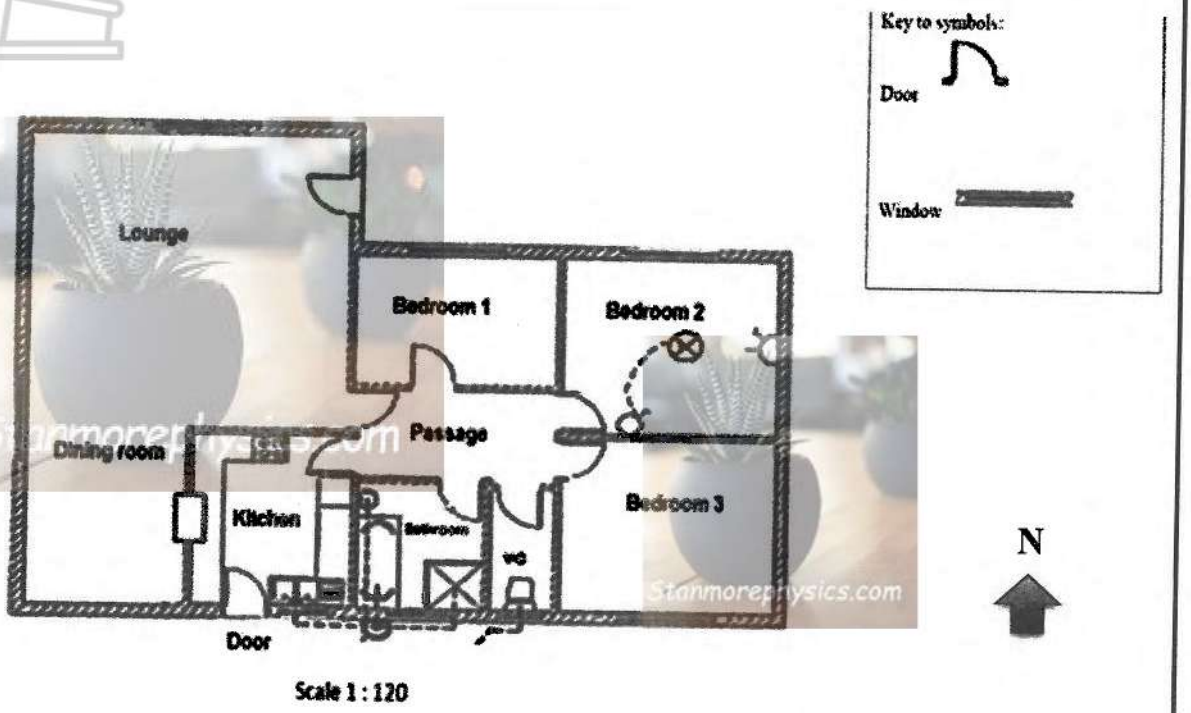
1.2.1 The porridge must simmer (cook slowly) at the heat setting number 2. Give the general direction that the control knob will be pointing to when it is on heat setting number 2? (2)

[12]

QUESTION 2

2. The Mthethwa family bought a new home. The floor plan of the house is shown below. Study the floor plan and answer the questions that follow.

FLOOR PLAN OF THE MTHETHWA FAMILY'S HOME



[Adapted from www.seatingplan.net

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

2.1 Give the general direction of the dining room from bedroom 1. (2)

2.2 Describe the route a person must take from the lounge to the kitchen. (3)

2.3 Use the **number scale** to calculate the actual distance in metres from bedroom 1 to the bathroom if the measured distance is 3,2 cm. (3)

2.4 Explain why this floor plan is an open plan. (2)

2.5 Discuss the advantages and disadvantages of using the number scale and bar scale respectively. (4)

2.6 Which rooms will be exposed to the sun in the morning? Give a reason for your answer. (3)

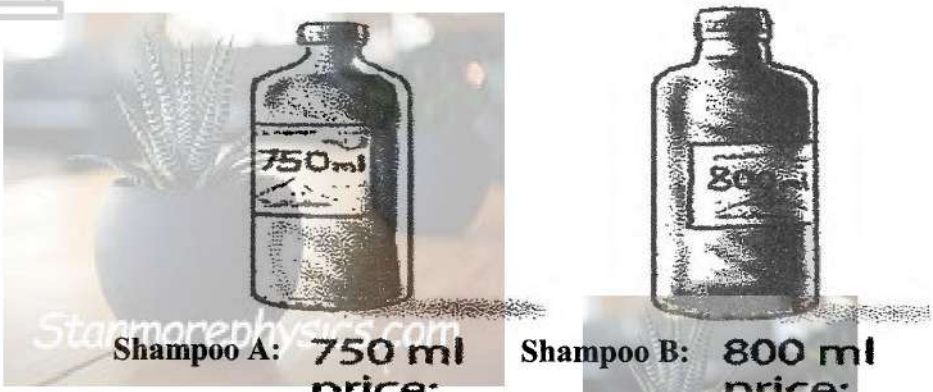
[17]

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QUESTION 3

3.1 Mrs Didiza wants to buy shampoo from Highlands Pharmacy. She needs to decide between the following two different options:

PICTURE OF THE SHAMPOO WITH PRICE



[Adapted from https://www.pexels.com]

Use the information above to answer the questions that follow.

3.1 Which measuring instrument is most appropriate to measure the weight of a shampoo bottle? (2)

3.2 Show that the volume of Shampoo A is 93,75% of Shampoo B. (2)

3.3 Use calculations to show which bottle offers better value for money. (5)

3.4 Mrs Didiza uses 12,5 ml shampoo every day. Calculate the number of days her shampoo will last if she uses bottle B. (3)

[12]

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QUESTION 4

4. ANNEXURE A shows a map that Mr and Mrs Mbatha will use as they decide to tour the Midlands Meander.

Use ANNEXURE A to answer the questions that follow.

4.1 Determine the number scale of the map in the form 1: ……. Round off to the nearest million. (3)

4.2 Calculate as the crow flies, the approximate distance between Umhlanga and Greytown by using the number scale in question 4.1 above. (3)

4.3 Mr and Mrs Mbatha will drive from Pietermaritzburg to Mooi River. Describe a route that they could take which will allow them to visit as many places during their journey but not visiting a place more than once. (3)

[9]

TOTAL MARKS: 50

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