Province of the
EASTERN CAPE
EDUCATION

NATIONAL SENIOR CERTIFICATE



MATHEMATICAL LITERACY

GRADE 10

CONTROLLED TEST

14 /MARCH /2023



MARKS: 50
TIME: 1 HOUR

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INSTRUCTIONS AND INFORMATION

1. This question paper consists of THREE questions. Answer ALL the questions.
2. Number the answers 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 off ALL final answers appropriately according to the given context, unless stated otherwise.
7. Indicate units of measurement, where applicable.
8. Diagrams are NOT necessarily drawn to scale, unless stated otherwise.
9. Write neatly and legibly.

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QUESTION 1 [10 MARKS]

Me Seipati received her pension amount of R1 450 350 to be divided amongst her husband Jacob, and her two daughters Tshiamo and Lerato in the ratio of 3:2:2.

Use the information above to answer the questions that follow.

1.1 Write down R1 450 350 in words. (2)

1.2 Round the pension amount to the nearest hundred. (2)

1.3 Determine how much Jacob and the two daughters will each receive when the ratio given is used. (4)

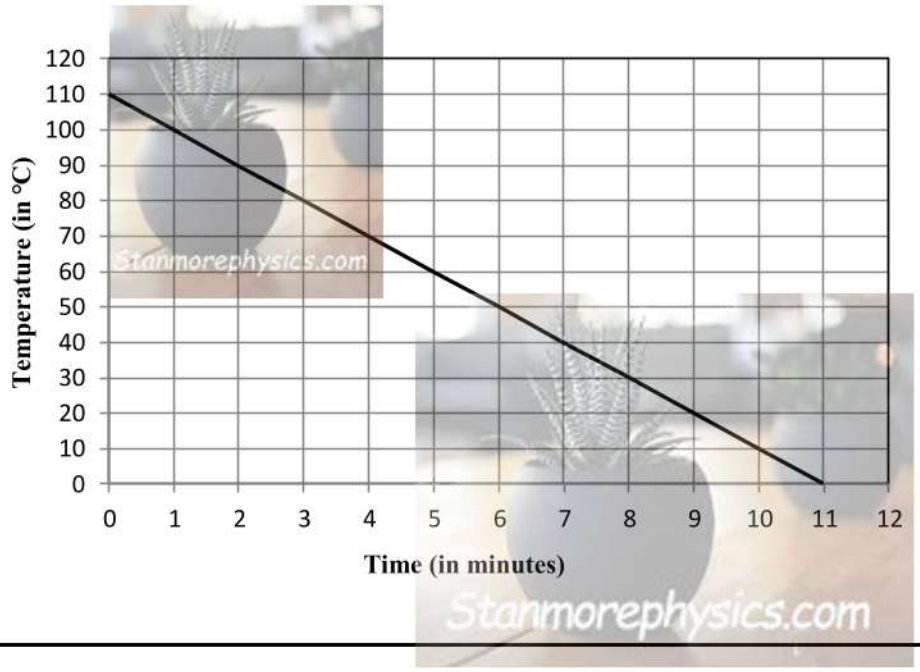
1.4 Lerato invests 10% of the money she received. Determine the amount of money that Lerato invested. (2)

[10]

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QUESTION 2 [18 MARKS]

2.1 Mr Mofana owns a bakery and every time before he leaves the bakery, he ensures that all the ovens are switched off for safety purposes and to save electricity. The graph below shows the time it takes for the temperature of the stoves to decrease after being switched off.



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

2.1.1 Write down the temperature after 4 minutes. (2)

2.1.2 Identify the dependent and independent variables from the graph above. (4)

2.1.3 Explain the difference between the relationship in this graph and an inverse relationship. (4)

2.1.4 Write down how much time does it take for the stove's temperature to be 0 °C. (2)

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2.2 Mr Mofana supplies local shops with bread. **Table 1** shows the cost of bread which are sold with the minimum of 20 loaves of bread.

Table 1:

No. of loaves (L)	20	40	60	**B**	100
Cost of bread loaves in Rands (C)	200	400	**A**	800	1000

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Use the information above to answer the following questions.

2.2.1 Determine the value of A and B in TABLE 1. (4)

2.2.2 Below is the formula to calculate the Cost of bread loaves (C). Determine the missing amount value.

Cost of bread = R……. × no. of loaves (L) (2)

[18]

QUESTION 3 [22 MARKS]

Mr Mphatsoe wants to make a dessert with the ingredients shown below.



Ingredients:

- 1 packet tennis biscuits
- 1 tin condensed milk
- 1 cup powdered milk
- 1½ cup lemon juice
- ½ cup water

Note: 1 cup = 250 ml

Recipe serves 5 people

3.1 Identify an ingredient with the least number of cups. (2)

3.2 Mr Mphatsoe decided to improve the taste of the dessert by increasing the lemon juice by 2%. He claimed that the amount of juice after the increase is 1 913, 5 ml. Verify, showing ALL calculations, whether the Mr Mphatsoe's statement is valid. (6)

3.3 How many cups of water is needed to make the dessert for 30 people? (4)

3.4 One tin of condensed milk costs R25,99 (VAT inclusive). How much will the condensed milk cost to make the dessert for 15 people? (3)

3.5 If VAT of 15% is payable on a tin of condensed milk, determine the price of 1 tin of condensed milk without VAT. (3)

3.6 The price of a tin of condensed milk increased from an amount of R21,99. Determine the percentage increase in the price of 1 tin of condensed milk.

You may use the following formula: $\frac{\text{new price} - \text{old price}}{\text{old price}} \times 100\%$.

(4)

[22]

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