



LIMPOPO

PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
EDUCATION

MOPANI WEST DISTRICT

GRADE 10

MATHEMATICAL LITERACY

TEST 1

11 MARCH 2024

Stanmorephysics.com

MARKS: 50

TIME: 1 HOUR

This question paper consists of 05 pages.

INSTRUCTIONS AND INFORMATION

1. This question paper consists of 4 questions. Answer **ALL** the questions.
2. Number the answers correctly according to numbering system used in this question paper.

1. Start EACH question on a NEW page

4. An approved calculator may be used, unless stated otherwise.

5. ALL the calculations must be shown clearly

6. ALL final answers must be rounded off to TWO decimal places, unless stated otherwise.

7. Units of measurement must be indicated where applicable

8. Write neatly and legibly

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QUESTION 1

1.1 Calculate the value of the following.

1.1.1 $13 + 2 (36 \div 3)$ (2)

1.1.2 $\sqrt{100} + (2 + \sqrt[3]{8})^2$ (2)

1.2 Write down the following as a numerical number.

1.2.1 One million eight hundred thousand two hundred and four. (2)

1.3

Mr Kgole is able to drive 518km on a full tank petrol before having to refuel.
The petrol tank on his car can hold 70 litres of petrol.

1.3.1 Write down the fuel consumption rate of Mr kgole, car in km per litre. (2)

1.3.2 Calculate the number of litres of petrol will Mr Kgole' car use to travel 285km. (3)

1.3.3 If Mr Kgole sets out on a trip with 28 litres of petrol in his car, calculate how far he will be able to travel before he has to stop for petrol. (3)

[14]

QUESTION 2

John and his friend Peter shared a job of cutting grass at John's uncle. They were paid R800 for the whole job. John worked for two hours and Peter worked for three hours

2.1 Calculate the amount that John will receive if they shared the amount in the ratio of the hours they worked. (3)

2.2 Peter used $\frac{1}{8}$ of his money to buy a set of 6 pencils and $\frac{1}{5}$ of his money to buy 5 pens.

He saved $\frac{1}{3}$ of his money in money box.

2.2.1 Calculate how much a set of 6 pencils costs. (2)

2.2.2 Calculate the how much each pen cost. (3)

2.3 John's transport fare to school has increased from R800 to R1 150. Calculate the percentage increase of the transport fare.

You may use the formula: **Percentage increase** = $\frac{\text{New amount} - \text{Old amount}}{\text{Old amount}} \times 100$ (3)



2.4.

John saw the price of potatoes from two supermarkets. Study Table 1 below showing the cost rates.

TABLE 1: Cost rates

Supermarket A	Supermarket B
R20,00 per 4,5kg	1,8kg at R9,00

John claimed that Supermarket B offers the best value for money. Verify whether his claim is valid.

(4

[15]

QUESTION 3

During a study, a group of Grade 10 learners were asked how long they spend on average per day on social media platform or applications. Table 2 below is a summary of the data.

TABLE 2: Data of Grade 10 learners' time spend on social media.

3,5	2,0	2,2	1,5	0,75	3,25	0,67	1,3
2,8	1,5	2,1	0,5	3,3	1,5	2,6	

Use the information above to answer the questions that follow.

3.1 Mention the method used to collect the above data.

(2

3.2 Is the data discrete or continuous?

(2

3.3 Name ONE example of social media or application.

(2

3.4 Write down the most hours spend on social media.

(2

3.5 Determine the modal hours of the data.

(2

3.6 Calculate the mean hours of the data. Write your answer in hours and minutes.

(4

[14]

QUESTION 4

The graph below shows the price of petrol over the past few years in South Africa.



Use the above information to answer the questions that follow.

- 4.1 Determine the minimum price of petrol over the period indicated on the graph and in which year. (2)
- 4.2 Determine the year in which the petrol price was the highest. Suggest a reason why the price was so high (3)
- 4.3 Determine the relationship (proportionality) shown by the graph from the year 2004 to 2006. (2)

TOTAL = 50 Marks

[7]

