

Hoërskool Johan Jurgens

Mathematical Literacy – Grade 10

Test

Term 1 - 2026



Examiner: M. Myburgh

Time: 1 hour

Moderator: M. Botha

Marks: 50

INSTRUCTIONS AND INFORMATION

1. This paper consists of FOUR 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 OR draw a line at the end of EACH question.
4. You may use an approved calculator (non-programmable and non-graphical), unless stated otherwise.
5. Show ALL the calculations clearly.
6. Round ALL the final answers accordingly, unless stated otherwise OR where the REAL-LIFE context requires rounding UP or DOWN.
7. Write neatly and legibly.
8. Formulae which may be required to answer the question, will be supplied below the question number. You should choose the applicable formula where required.

This question paper consists of 5 pages

QUESTION 1

Mr Zulu is a teacher at Sizimele High School. He earns an annual income of R420 600.

- 1.1 Write down R 420 600 in words. (2)
- 1.2 When you write 420 600 in your calculator it sometimes comes out as 420,600. Explain the purpose of the comma. (2)
- 1.3 If he gets an increase of 8,2% next year, calculate his new annual salary. (3)
- 1.4. He will be paying 30% of his total annual salary next year to the South African Revenue Services (SARS) in income tax.
- 1.4.1 Convert 30% to a decimal number. (2)
- 1.4.2 Calculate the amount of income tax he will be paying to SARS after his annual salary increase. (2)
- 1.4.3 If he pays 30% of his income to SARS as income tax, what percentage of his salary is left over? (2)
- 1.4.4 Calculate how much he will receive after tax deduction monthly? (4)

[17]

QUESTION 2

A 22-seater taxi uses petrol at an average of R12 /100 km. This taxi was hired by 15 people for an outing, and they paid R 4 500 in total.



- 2.1. Explain what R12 /100km means. (2)
- 2.2. Approximately how much fuel will be required for a journey of 679 km? (Round off your answer to one decimal place) (3)
- 2.3. How many km could the taxi travel if it had 37ℓ of petrol in it's tank? (Round off your answer to the nearest km). (3)
- 2.4. How much will each person pay for hiring the taxi? (2)
- 2.5. If another 6 people join them, how much will they each pay? (3)

[13]

QUESTION 3

Mr. Ditema has a small business where he sells cakes. For him to make one cake he needs 0,9 kg of flour, 540 g of sugar and 600 g of butter.



Use information above to answer the following questions:

- 3.1.1 Determine the total mass of the given ingredients. Give your answer in gram. (3)
- 3.1.2 If you have a 0,5 kg block of butter, will you have enough butter for the recipe? Show all your calculations to justify your answer. (3)
- 3.1.3 If sugar comes in 200g bags at a cost of R9,95 per 200g bag, determine the total cost of the sugar needed for this recipe. (4)
- 3.2 The cake needs to be baked in the oven for 40 minutes at 120° C. According to the oven's temperature dial, the temperature of the oven is 200° C.
- 3.2.1 How many degrees Celsius (°C) should the oven cool down before the cake can be baked? (2)
- 3.2.2 Describe what will happen to the cake if it is left in the oven to bake at a temperature of 200° C (2)

[14]

QUESTION 4

4.1 John, Thabo and Mary share a bonus of R4 800 in the ratio of their working hours:

3 : 5 : 4

How much will each of them get?

(6)

[6]

TOTAL: 50