

DOYEN

KENYA JUNIOR SCHOOL EDUCATION ASSESSMENT



TERM 1 2025 OPENER EXAM GRADE 9 – MATHEMATICS

Time: 2 hours

NAME: _____

SCHOOL: _____

STREAM: _____ DATE: _____

INSTRUCTIONS

- a) Write your name, school, stream and date in the spaces provided above.
- b) Answer **all** questions in this booklet.
- c) All answers must be given as per the guidelines of the questions.
- d) All answers **must** be written in this booklet.

ASSESSMENT RUBRIC

RANGE (%)	LEVEL
80 - 100	Exceeding expectation
60 - 79	Meeting expectation
40 - 59	Approaching expectation
0 - 39	Below expectation

LEARNER'S SCORE

Out of 50	
Score	
%	

This paper consists of 8 printed pages. Candidates should check the question paper to confirm that all pages are printed as indicated and that no questions are missing.

1. Express the number below in words. (1 mark)
10,897,801,555
2. Round off to the nearest ten thousand. (1 mark)
5,890,123
3. For the number below, state the place value and the total value of the underlined digit. (2 marks)
98,374,803,041
4. In Gahumbwa Junior School, there are 156 boys and 199 girls. If 31 students transferred out at the start of the year, how many students remained in the school? (2 marks)
5. A mother divides a number of mangoes among her five daughters, giving each daughter 6 mangoes. If three mangoes are left, how many mangoes did she originally have? (2 marks)
6. Albert had 8910 bags of maize, each weighing 90 kg. She sold 5160 of them.
 - a) How many kilograms of beans does she still have? (2 marks)

b) After adding 468 more bags of beans, how many bags does she now have? (1 mark)

7. Three school bells ring at intervals of 30 minutes, 45 minutes, and 60 minutes. If they all ring together at 8:00 am, at what time will they next ring together? (2 marks)

8. Solve the following expression. (3 marks)
 $\frac{1}{2} \text{ of } \left\{ \frac{3}{5} + \frac{1}{4} \left(\frac{7}{3} - \frac{3}{7} \text{ of } 1\frac{1}{2} \div 5 \right) \right\}$

9. The greatest common divisor (GCD) of three numbers is 30, and their least common multiple (LCM) is 900. If two of the numbers are 60 and 150, what are the possible values of the third number? (3 marks)

10. Kyallo measured the temperature inside a deep freezer and found it to be 3°C , while the room temperature was 24°C . What was the difference in temperature between the room and the freezer? (2 marks)

11. Three boys shared a certain sum of money. The youngest received $\frac{1}{12}$ of it, the next received $\frac{1}{4}$, and the eldest received the remainder.

a) What fraction of the total money did the eldest receive? (1 mark)

b) If the eldest received Sh. 330, what was the original amount of money? (2 marks)

12. Express 0.35 as a fraction. (1 mark)

13. Simplify.

(2 marks)

$$3p + 6n - 2(p - 10p)$$

14. A father is three times as old as his son. In five years, the sum of their ages will be 58 years. What are their current ages?

(2 marks)

15. A trader buys a bag of maize and sells it at a profit of Sh. 250. If the buying price was Sh. y , write an expression for the percentage profit in terms of y .

(2 marks)

16. After spending $\frac{5}{6}$ of his December salary on school fees, Wafula was left with Sh. 3500. How much was his salary for the month?

(2 marks)

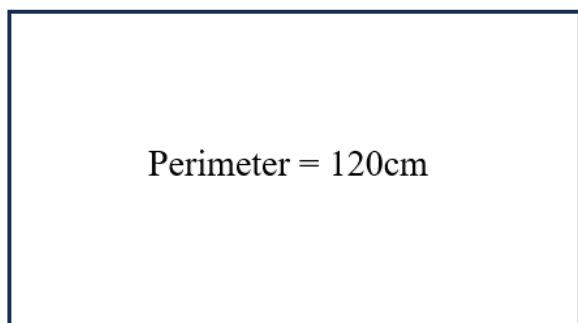
17. Solve the following simultaneous equation using elimination method.

(3 marks)

$$2x + y = 5$$

$$x - y = 1$$

18. The rectangle below has a length that is 7 cm longer than its width, and a perimeter of 120 cm.



a) What is the width of the rectangle?

(2 marks)

b) What is the area of the rectangle? (2 marks)

c) If the cost of material used to make the rectangle is Sh. 30 per square centimeter (cm^2), how much will the material for the entire rectangle cost? (2 marks)

d) Two similar triangles are created from the rectangle. Calculate the length of the hypotenuse of the triangles? (2 marks)

19. Determine if the following numbers are divisible by 3.

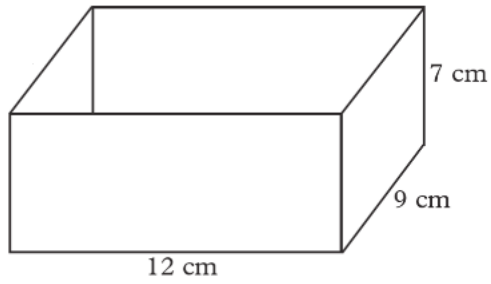
a) 3457 (1 mark)

b) 555 (1 mark)

c) 634,578 (1 mark)

20. Calculate the surface area of the figure below.

(3 marks)



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