KYOTERA DISTRICT EXAMINATIONS BOARD

PRIMARY LEAVING MOCK EXAMINATION – 2024

MATHEMATICS

Time Allowed: 2 Hours 30 Minutes

CANDIDATE'S NAME: _____

INDEX NO: | | | | | | | | | |

SIGNATURE: _____

SCHOOL: _____

READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. *This paper has two sections A and B.*
2. *Section A, has 20 short questions (40 marks).*
3. *Section B has 12 questions (60 marks)*
4. *Answer all questions.*
5. *All answers to all questions must be written in the spaces provided.*
6. *All answers must be written using blue or black ball pen or ink. Diagrams should be drawn in pencil.*
7. *Unnecessary crossing of work will lead to loss of marks.*
8. *Any handwriting that cannot easily be read may lead to loss of marks.*
9. *Do not fill anything in the boxes indicated "FOR EXAMINERS USE ONLY"*

For Examiner's Use Only;

NUMBERS	MARKS	INITIALS
1 - 5		
6 -10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
TOTAL		

TURN OVER

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SECTION A: 40 MARKS

Questions **1** *to* **20** *carry* **two** *marks each.*

1. **Multiply**: 3 2 0
   x 3

2. Write 1943 in words.

3. **Simplify** : 4 - 6

4. Find the next number in the sequence below.
   2, 3, 6, 12, 22, _____

5. Set **K** has 31 proper subsets, how many elements has set K?

6. Joel borrowed sh. 250,000 from a village SACCO which offers an interest rate of 5% per month. How much interest did the SACCO get after 6 months?

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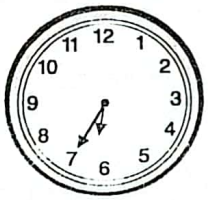
7. If D represents 5 pancakes, draw pictures to represent 25 pancakes.

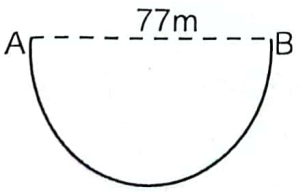
8. Subtract 2p - 3 from 3p + 6.

9. Mugisha's water metre reading was 26745 at the end of June and at the end of July it read 26755. How much money did he pay at the end of July if a unit costs sh. 1,250?

10. Tell the afternoon time on the clock face below.



11. Use the diagram below to find the length of the arc AB.



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12. What number has been expanded to give;
$(3 \times 10^3) + (4 \times 10^1) + (2 \times 10^0) + (1 \times 10^{-2}) + (5 \times 10^{-3})$?

13. With the help of a ruler, a pencil and a pair of compasses only, construct an angle of 135^0.

14. Solve the inequality: $4 - \frac{2}{3}m < 6$

15. 4 men can slash the school playground in 6 days. How many more men are needed to do the same piece of work in 4 days?

16. Increase CL by 50 and give the answer in Hindu Arabic figures.

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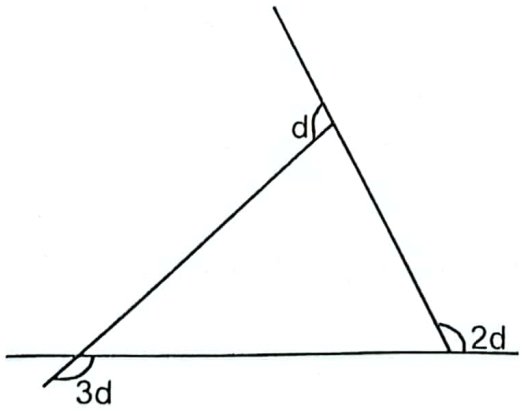
17. The Head teacher set off from his home to school at 7:00a.m riding at a steady speed of 10 metres every second. Express the head teacher's speed in kilometres per hour.

18. A milk monger sold 30 tins of milk each measuring 500ml. How many litres of milk were sold?

19. Akankunda tossed a dice once, what is the probability that a number which appeared on top was a square number?

20. Find the value of **d** in the figure below.



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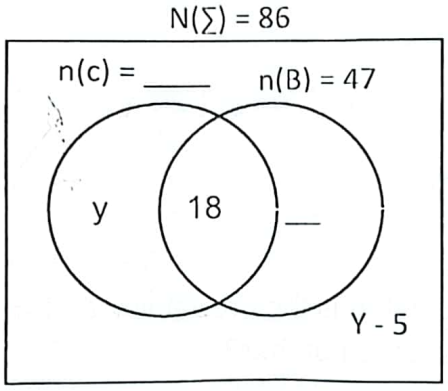
SECTION B: 60 MARKS

Marks for each part of the question are indicated in brackets.

21. A leavers' party attended by 86 guests, 47 were served with beef, (B) and 18 were served with both beef and chicken (C). Y guests were served with chicken only while y-5 were not served with any of the two dishes.

a). Use the above information to complete the venn diagram below.

(2 marks)



b) Find the value of y. *(2 marks)*

c) Find the number of guests who were served with chicken. *(1 mark)*

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22. Mwaka went to the market with a twenty thousand shilling note and bought the following:
2kg of sugar at sh. 3,800 per kg
500gm of Nomi at sh. 6,000 per kg
9 rolls of toilet paper at sh. 1,000 for every 3 rolls of toilet paper.
2 tubes of toothpaste at sh. 5,400.
If he was given a discount of 5%; find his total expenditure. *(6 marks)*

23. a) Our school tank has three taps. Tap **A** fills it in 6 hours, tap B fills it in 12 hours and tap **C** fills it in 4 hours. How long will all the three taps take to fill the tank if they are opened at the same time? *(2 marks)*

b) If all the three taps fill 500 litres every hour, find the capacity of the tank when it is full. *(2 marks)*

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24. **The timetable below shows a bus' journey from Lyantonde to Kampala.**

STATION	ARRIVAL	DEPARTURE
LYANTONDE	_____	6:30am
KINONI	7:15am	7:45am
MASAKA	8:25am	8:50am
LUKAYA	9:15am	9:35am
KAMPALA	11:15am	

a) How long does the bus take from Kinoni to Lukaya? *(1 mark)*

b) Change the time the bus leaves Lukaya for Kampala to 24 hour clock system. *(1 mark)*

c) If Kampala is 210km from Kinoni, calculate the average speed of the bus.

(3 marks)

25. One of the interior angles of a regular polygon is 120^0.

a) Name the polygon. *(3 marks)*

b) Calculate the interior angle sum of the polygon. *(2 marks)*

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26. Three men Byarugaba, Byaruhanga and Mbabazi have a total of 130 cattle. If Byarugaba's cattle are half those of Byaruhanga and Mbabazi has 50 cattle more than Byarugaba.

a) Calculate the number of cattle Byarugaba has. *(3 marks)*

b) If Byaruhanga sells each of his cattle at sh. 1,050,000, how much money will he get? *(2 marks)*

27. The diameter of a wheel of a bicycle is 70cm. Calculate the number of revolutions the wheel makes to cover a distance of 4.4km.
(Take $\pi = \frac{22}{7}$) *(4 marks)*

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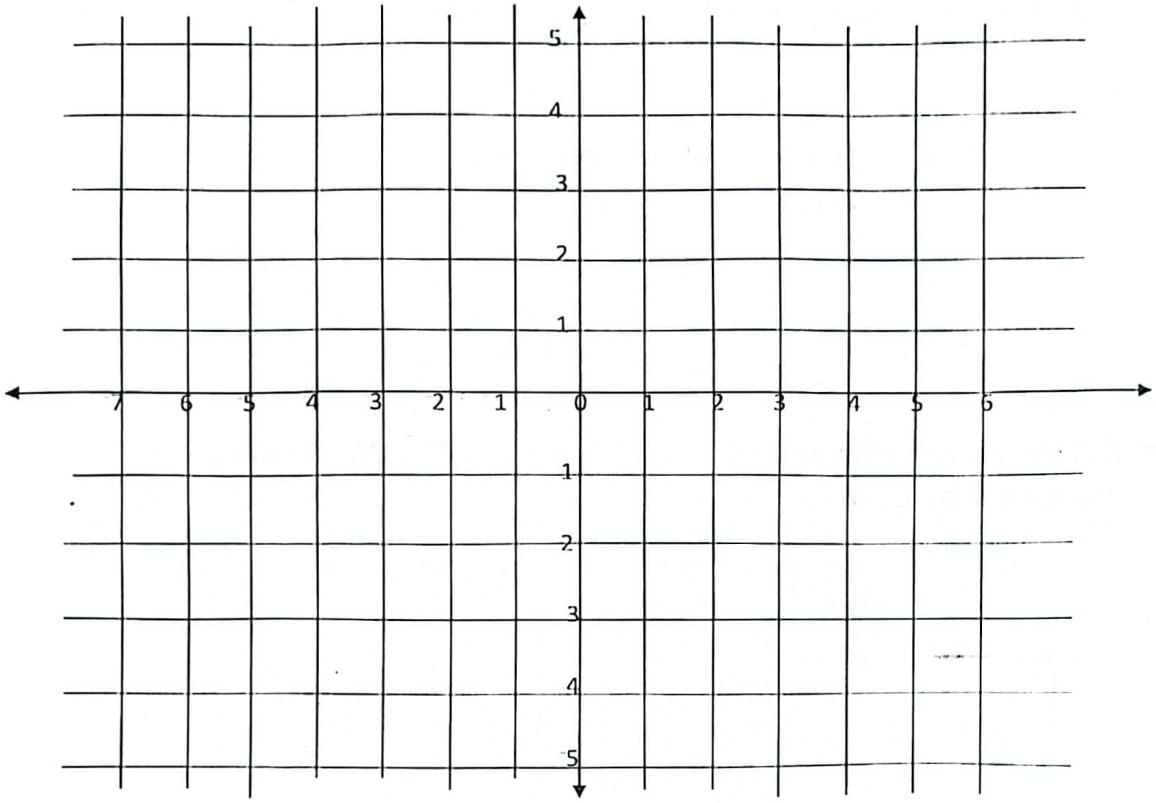
28. a) On the graph below, plot the points;
E (2, -3), F (-4, -3), G (-2,3), and H (2, 3) *(4 marks)*



b) Join E to F, F to G, G to H and H to E. *(1 mark)*

c) Name the quadrilateral formed after joining the points. *(1 mark)*

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29. In the equation below, find the value of base p.

a) $203_p = 35_{ten.}$ *(3 marks)*

b) Use the distributive property only to work out:

(0.9 x 47) - (0.9 x 17) *(2 marks)*

30. The sum of the magic square diagonally, horizontally and vertically is the same. Complete the table below. *(5 marks)*

8	1	Y = ____
w = ____	5	7
x = ____	9	T = ____

31. a) Express 0.00234 in a scientific notation. *(2 marks)*

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b) Find the quotient of the values of **2** and **4** in the number 2341. *(3 marks)*

32. At a certain school, 3 places are positioned in a way that the head teacher's office is 50m East of the flag post and the P.7 classroom is 60m on a bearing of 150^0 from the head teacher's office.

a) Using a scale of 1cm:10m, construct an accurate diagram to show the three positions. *(4 marks)*

b) Find the actual distance between P.7 classroom and the flag post.

(1 mark)

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