

IGANGA DISTRICT PRIMARY SCHOOLS EXAMINATION BOARD

PRIMARY LEAVING MOCK EXAMINATION 2024

MATHEMATICS

Time Allowed: 2:30 minutes

INDEX NO.

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CANDIDATE'S NAME:

CANDIDATE'S SIGNATURE:

SCHOOL NAME:

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO SO

Read the following instructions carefully:

1. This paper has two section: A and B
2. Section A has 20 questions (40 marks)
3. Section B has 12 questions (60 marks).
4. Answer **ALL** questions. All answers to both Sections A and B must be written in the spaces provided.
5. All answers must be written using a blue or black ball-point pen or ink. Only Diagrams should be done in pencil
6. Unnecessary change of work may lead to loss of marks.
7. Any handwriting that cannot easily be read may lead to loss of marks.
8. Do not fill anything in the boxes shown "For Examiners' Use only".

FOR EXAMINERS' USE ONLY		
QN. NO.	MARKS	EXR'S
1-10		
11-20		
21-22		
23-24		
25-26		
27-28		
29-30		
31-32		
TOTAL		

SECTION A (40 MARKS)

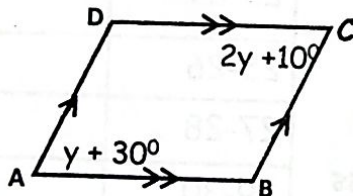
1. Work out: $12 + 8 =$

2. Solve: $3P = 25 - 2P$

3. Find the mean of $\frac{1}{12}$ and $\frac{1}{3}$

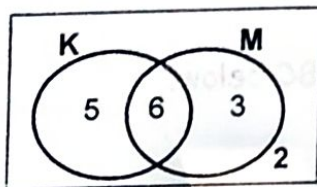
4. Write 63508 in words.

5. Work out the value of Y in the figure below.



6. Simplify: $\frac{0.12 + 0.06}{0.09}$

7. A bag contains three apples and four oranges. Find the probability of picking an apple from the bag at random.
8. Work out the square of 16
9. Find the distance covered by a car travelling at a speed of 64 kilometres per hour for only 15 minutes.
10. In the venn diagram below, find $n(k)$

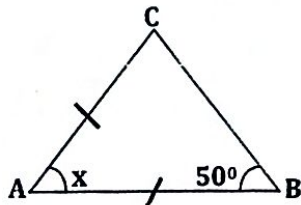


11. Five geometric sets cost sh. 25,000. Work out the cost of four similar sets.

12. Using a well sharpened pencil, a ruler and a protractor only, draw an angle of 120° in the space provided below.

13. Find the range of 8, 0, -7, 3, 1 and 2

14. Work out the value of X in the figure ABC below.



15. In a group of 30 farmers, 40% are males. Find the number of females farmers in the group.

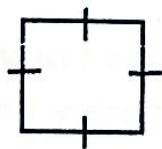
16. Change 1101_{two} to a decimal base.

17. Simplify: $-9 - +9$

18. Express 600 metres as a percentage of 2km

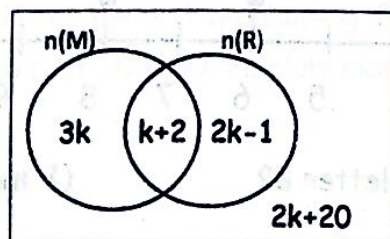
19. Find the product of the next two numbers in the sequence
 $1, 4, 6, 9, 11, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}$

20. By showing, how many lines of folding symmetry does the figure below have?



SECTION B (60MARKS)

21. At a graduation party, guests were served with matooke (M), Rice (R) other food stuffs as shown on the Venn diagram below.



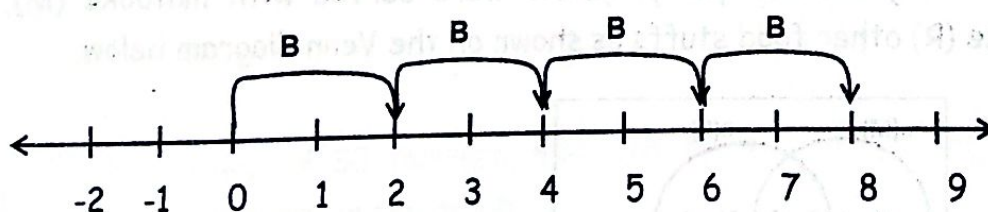
(a) If the number of guests who ate matooke was a third those who did not eat Rice, find the value of K. (2marks)

(b) Calculate the total number of guests who attended the graduation party. (2marks)

(c) Find the chance of selecting a guest at random to give a speech who ate other food stuffs? (1 mark)

22. (a) Find the additive inverse of -3 (2 marks)

(b) Study the number line below and use it to answer questions that Follow:



(i) What integer is represented by letter B? (1 mark)

- (ii) Write the multiplication mathematical statement shown on the above number line. (2 marks)

23.(a) At National theatre, seats are arranged in 5 rows and 4 columns. If one day there were 6 guests per table, how many guests attended the play that day? (2marks)

b) The ministry of Education and Sports distributed 27225 new text books to 45 districts last month. How many text books did each district receive? (2marks)

24. (a) Paul tied a cow on a peg using a rope of 7 metres long. Find the area of the grazing land where the cow was tied. ($\pi = 3\frac{1}{7}$). (2marks)

(b) A school compound measuring 80m by 60m was to be paved using square pavers of side 20cm. How many pavers were required to cover the compound? (4marks)

25. Using a ruler, a sharp pencil and a pair of compasses only,
(a) Construct a parallelogram PQRS in which $PQ = 8\text{cm}$, diagonals $PR = 6\text{cm}$
and $QS = 12.8\text{cm}$.
(4 marks)

- (b) Measure the length QR _____ (1 mark)

26. (a) It takes 4 minutes for Tap R to fill a tank but it takes W minutes for Tap Q to draw water from the same tank. If both taps take 12 minutes to fill the tank when opened at the same time, find the value of W .
(3marks)

- (b) Simon had $\frac{3}{4}$ of a water melon. He gave out $\frac{1}{3}$ of it to Mary, find the fraction that he remained with? (2marks)

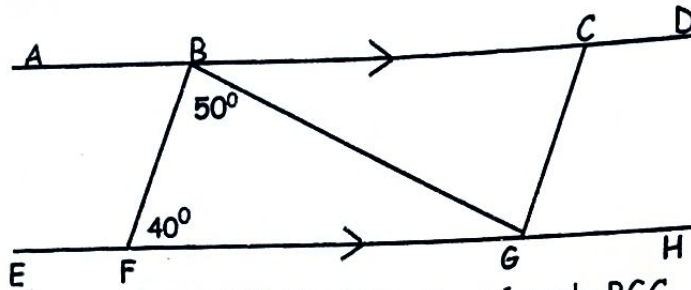


27. (a) A shopkeeper bought 30 plates at Sh. 120,000. On his way back, some X plates got broken and sold the remaining plates at sh.5,000 each. If he made a profit of sh. 20,000, find the value of X. (4 marks)

- (b) How many plates remained?

(1mark)

28. (a) Study the figure below carefully and use it to answer the question that follows.



- a) If angle $DCG = 110^\circ$. Find the size of angle BGC .

(3 marks)

- b) Find the angle that is a quarter of its supplement. (2 marks)

29. A motorist left Town P travelling at a speed of 50 kilometres per hour and reaches Town Q after two hours. He rested for thirty minutes. When he realized that he was late, he increased the original speed by 10 kilometres per hour reaching Town R after twenty minutes.

- (a) How far is Town P from Town Q?

(2 marks)

- (b) If he returned using the same route at a speed of 40 kilometres per hour, calculate his average speed for the entire journey while travelling.

(3 marks)

30. (a) The ratio of x and y is 3:4 respectively. If their H.C.F is 5, find the value of y . (2marks)

(b) A doctor prescribed 3 types of medicine A, B and C for a patient to swallow after every 8 hours, 6 hours and 12 hours respectively. After how many days will the patient swallow from all the three types of medicine at the same time? (3 marks)

31. (a) Obbo who is 10 years older than Sandra was exactly twice as old as Sandra 5 years ago. How old is Obbo now? (3 marks)

(b) Find the number that must be added to $2m-3$ in order to get $4m-1$ (2 marks)

32. The circle graph below shows how a nurse spends her monthly salary of sh.800,000. Study it carefully and use it to answer questions that follow



- (a) If she saves sh. 200,000.
Find the value of y . (3 marks)

- (b) Express the sector for food as a ratio.

(2 marks)

END