



**ENTEBBE MUNICIPAL COUNCIL
PRIMARY SCHOOLS MOCK EXAMINATION-2024
MATHEMATICS**

Time Allowed: 2 Hours 15 minutes

Index No.

Random No.						Personal No.		

Candidate's Name : _____

Candidate's Signature : _____

School ID No.

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Read The Following Instructions Carefully:

1. Do not write your School name anywhere on this paper.
2. This paper has two sections: A and B.
Section A has 20 questions and section B has 12 questions.
3. Answer all questions. All the working for both sections A and B must be shown in the spaces provided.
4. All working must be done using a blue or black ball point pen or ink. Any work done in pencil other than graphs and diagrams will not be marked.
5. No calculators are allowed in the examination room.
6. Unnecessary changes in your work and handwriting that cannot easily be read may lead to loss of marks.
6. Do not fill anything in the table indicated: "For Examiners' use only" and boxes inside the question paper.

FOR EXAMINERS' USE ONLY		
Qn. No.	Marks	EXR'S No.
1 - 5		
6 - 10		
11-15		
16-20		
21-22		
23-24		
25-26		
27-28		
29-30		
31-32		
TOTAL		

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SECTION A (40 MARKS)

Answer all questions in this section.
Questions 1 to 20 carry two marks each.

1. Workout: 204×2 .

2. Express DXCII in words.

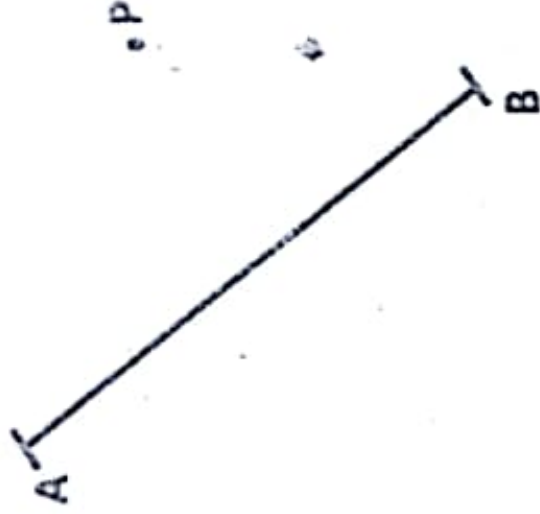
3. Given that set $K = \{a, b, c, d, h, g\}$ and Set $P = \{b, d, e, f, j, i\}$ find $n(K-P)$

4. Find the product of the next two missing numbers in the sequence below.

2, 4, 7, 12, 19, _____, _____

5. A class has 24 boys and the fraction of girls is $\frac{3}{5}$. How many pupils are in that class?

6. With the help of a ruler, a pencil and a pair of compasses only, drop a perpendicular line from point P to meet line AB at point Q.



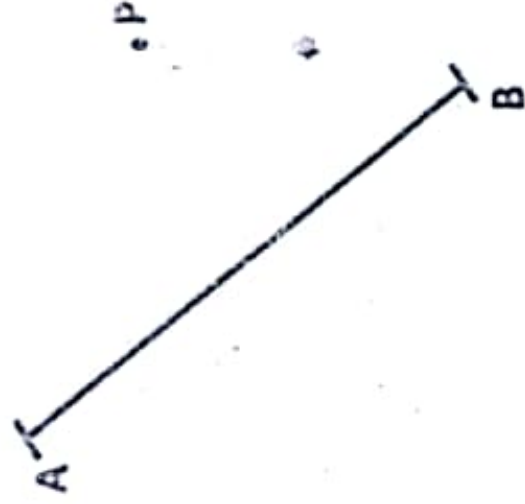
7. Solve for x: $3 - 2x = 15$.

8. Arrange -6, 0, -1, -4, +6 and 3 in descending order.

9. The median of five consecutive integers is 0. Find their range.

10. Six girls can mop a room in 18 minutes. How many less girls are needed to mop he same room in 36 minutes.

6. With the help of a ruler, a pencil and a pair of compasses only, drop a perpendicular line from point P to meet line AB at point Q.



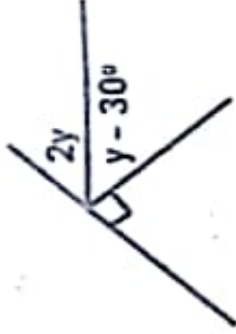
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11. Find the value of y in the diagram below.



12. A motorist covered a distance of 135 km in 90 minutes. Calculate his speed in kilometres per hour.

13. Find the distance around the figure below.



14. What will be the number when 240 is increased in the ratio of 3:2.

15. Use a dial to work out: $2 - 4 =$ _____ (finite 7).

16. Describe the unshaded region in the Venn diagram below.



17. Using distributive property, find the value of $(4.6 \times 4) + (4.54 \times 4)$.

18. Given that $m = 4$ and $n = 3$, find the value of $2m^2 - n^2$.

19. In the diagram below, $CE = 6\text{dm}$, $GE = 12\text{dm}$ and $BF = 4\text{dm}$. Find height DH .



20. If $1\text{m}^3_{\text{five}} = 46_{\text{eight}}$. Find the value of m .

SECTION B: (60 MARKS)

Answer all the questions in this section

Marks for each question are indicated in brackets.

21.a) Convert $0.5666\ldots$ to a common fraction in its simplest form. (2 marks)

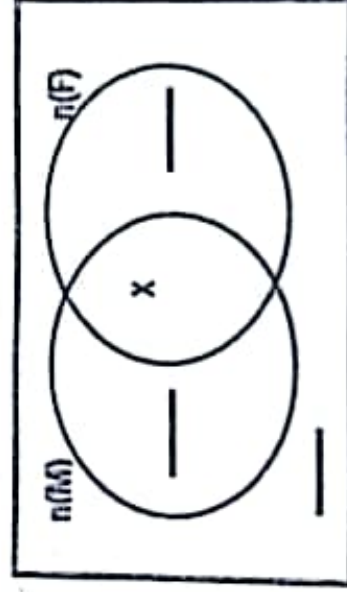
b) Simplify: $\frac{0.24 \times 3.6}{0.88 - 0.76}$

088 - 076

(3 marks)

22. In a class, $(x + 8)$ pupils eat meat (M) only, x like both meat and fish (F), 7 do not like any of the two sauces while 35 pupils like fish.

a) Complete the Venn diagram below. (3 marks)



b) If 32 pupils do not like fish, find the value of x .

(2 marks)

c) How many pupils like meat?

(1 mark)

23. The average weight of 15 pupils is 40kg. If two pupils whose weight is 40kg and 53kg leave the group, calculate the average weight of the remaining pupils.

(5 marks)

24. The table below shows the rate at which different currencies were bought and sold at a Forex Bureau.

Use it to answer the questions that follow.

Currency	Buying in Ugsh	Selling in Ugsh
1 Us dollar (\$)	3800	4000
1 pound (£)	4300	4500
1 Kenya (Ksh)	35	36

- a) If 400 Us dollars were bought and sold by the Forex bureau, how much profit did it make in Uganda shillings?

(2 marks)

- b) A business man had 720 pounds and exchanged for Kenyan shillings.
How much Kenya shillings did he get? (3 marks)

- 25.a) Using a sharp pencil, a ruler and a pair of compasses only, construct a rhombus PQRS where diagonal PR = 10cm and QS = 8cm. (4 marks)

- b) Measure the length PS. (1 mark)

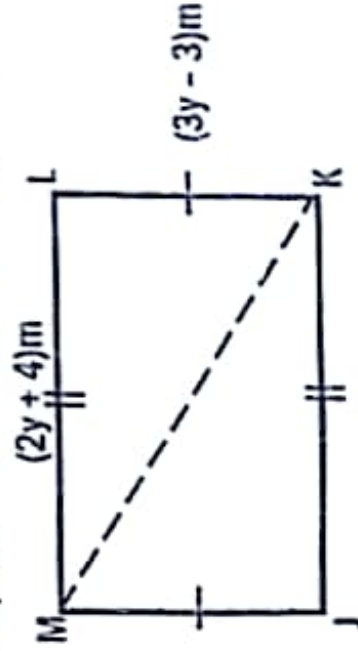
26. Calculate the area of the rhombus PQRS.

(1 mark)

26. The number of goats, rabbits and sheep on a certain farm are in the ratio of 4:3:5 respectively. There are 40 more sheep than rabbits. Find the number of each type of animal on the farm.

(5 marks)

27. The figure represents a rectangular garden JKLM whose perimeter is 42m.



- a) Find the value of y .

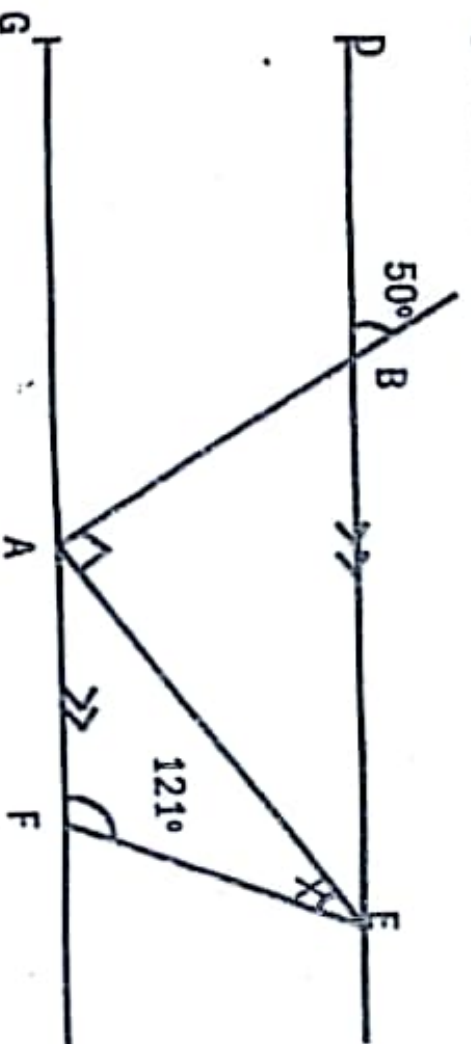
31. In a market, the cost of a watermelon is sh. 2,000 more than the cost of a pineapple. A pineapple costs sh. 500 less than the cost of a pawpaw. The total cost of three fruits is sh. 11,500. Calculate the cost of a watermelon. (4 marks)

32. 25% of the population in Entebbe Municipality during Census are male adults, 35% are female adults and the 40% are children. Using a radius of 4cm; draw an accurate pie chart showing the above information. (5 marks)

29. Musimbe went to the shop with sh. 50,000 and bought the items shown in the table below. After paying for all the items, he remained with sh. 12,500. Complete the table. (6 marks)

ITEM	UNIT COST	TOTAL
3kg of rice	sh. 4,000 per kg	sh.
1 ½ litres of cooking oil	sh. per litre	sh. 10,500
2 loaves of bread	sh.	sh.
..... litres of milk	sh. 2,000 per litre	sh. 3,000
		sh.

30. In the figure below, DE is parallel to GF and AE perpendicular to AB. Study the figure and answer the questions that follow.



- a) Calculate the size of angle marked x. (4 marks)

b) Find the length of diagonal MK.

28. A milk seller has 61.6 litres of milk in his big container. He sells it using a small container of diameter 14cm and height 10cm.

a) Find the number of small containers that he obtained from all the milk.

(Take $\pi = \frac{22}{7}$).

(3 marks)

b) If he sells each container at sh. 1500, how much money did he collect from the milk? (2 marks)