



STEP-UP EXAMINATIONS BOARD

NATIONAL PRE-PLE SET ONE

2024

MATHEMATICS

Time allowed : 2 hours 30minutes

Random No.						Personal No.		

Pupil`s Name

Signature:

School Name.....

District Name.....

Read the following instructions carefully;

1. This paper has **two** sections: **A** and **B**.
Section **A** has **20** questions and
Section **B** has **12** questions.
2. Answer **all** the questions. **All** the
answers for both sections **A** and **B**
must be shown in the spaces provided.
3. All working must be done using a **blue**
or **black** ball-point pen or fountain
pen. Any work done in pencil other
than graphs, pictures and diagrams
will **not** be marked.
4. Unnecessary changes of work may lead
to **loss** of marks.
5. Any handwriting that cannot easily be
read may lead to **loss of marks**.
6. Do **not** fill anything in the boxes
indicated:
“FOR EXAMINERS’ USE ONLY” and
boxes inside the question paper.

FOR EXAMINERS’ USE ONLY		
QN. NO.	MARK	EXR’S NO.
1 – 5		
6 – 10		
11 – 15		
16 – 20		
21 – 22		
23 – 24		
25 – 26		
27 – 28		
29 – 30		
31 – 32		
TOTAL		

SECTION A

1. Workout: $48 \div 6$.

(2 Marks)

2. Change 0.8km to m.

(2 Marks)

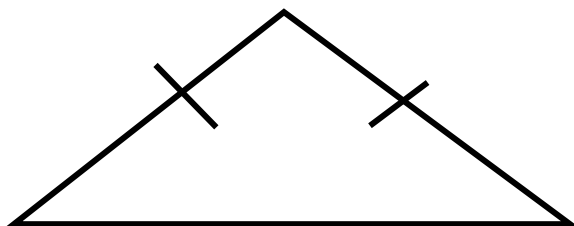
3. Express 954 in roman numerals.

(2 Marks)

4. Workout: $9 - 3$.

(2 Marks)

5. How many lines of folding symmetry has the figure below?(2 Marks)

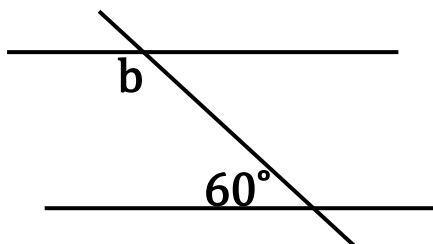


6. Okello scored 60 marks out of 80 marks. By what percentage did he fail? (2 Marks)

7. Round off 29.63 to the nearest whole number. (2 Marks)

8. Odongo is thrice as old as Opolot. If their total age is 64 years, how old is Odongo? (2 Marks)

9. Find the value of **b** in the figure below. (2 Marks)



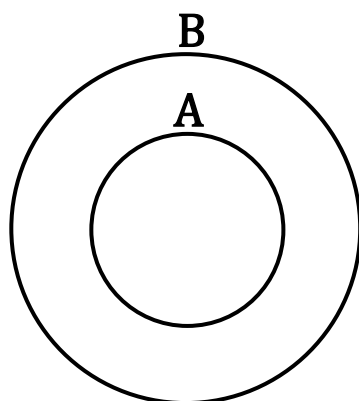
10. Find the greatest common factor of 15,18 and 24. (2 Marks)

11. Kato bought 3 books at sh.2400.What is the cost of 7 similar books?
(2 Marks)

12. Express $\frac{4}{5}$ as a decimal fraction. (2 Marks)

13. A bus travelled at an average speed of 60km/hr for 120 km.
Calculate the time taken in minutes. (2 Marks)

14.In the Venn diagram below, shade $(A \cap B) = A$ (2 Marks)



15. Ahebwa borrowed sh.900,000 from a bank that offers an interest rate of 5% per annum for 18 months. Find the simple interest after 18 months. (2 Marks)

16. A pupil rolled a dice once. What is the probability that a five appears on top? (2 Marks)

17. A mathematics ended at 12:30 pm. If the lesson lasted for 55 minutes, at what time did it start? (2 Marks)

18. Find the 5th triangular number. (2 Marks)

19. Expand 4507 using exponents.

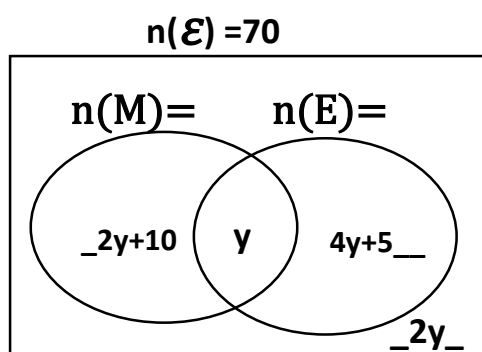
(2 Marks)

20. Using a ruler, sharp pencil and a pair of compasses only construct an angle of 75° .

(2 Marks)

SECTION B: 60 MARKS

21. The Venn diagram bellow represents the number of pupils who like mathematics $\{M\}$ and English $\{E\}$. Use it to answer the questions that follow



a). Find the value of y .

(3 mks)

b). How many pupils do not like English?

(1 mk)

c). If a pupil is picked at random, what is the probability that a pupil likes at least one subject?

(2mks)

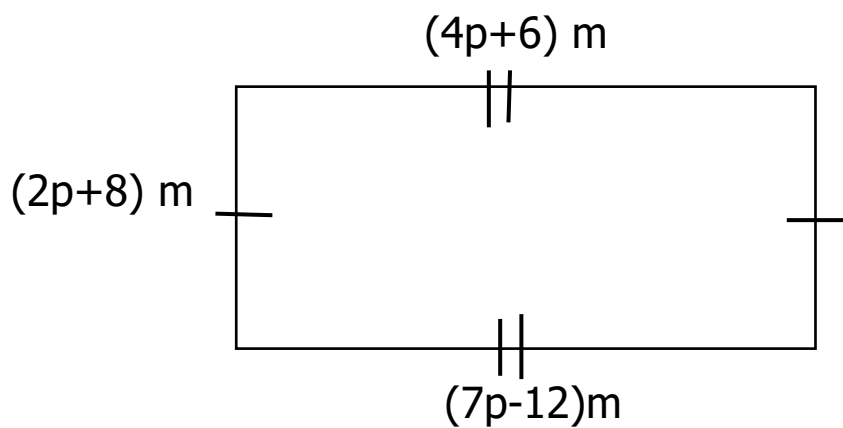
22. a) Solve for x. $4(x-2)-2(x-6)=12$.

(3mks)

b. Solve the inequality below. $2m-1<11$.

(2mks)

23. The figure below represents a regular piece of land study it carefully and answer questions that follow.



a). Find the value of p . (2marks)

b). Workout the area of the piece of land. (2marks)

c). A goat moved round the piece of land thrice, what distance did it cover? (2marks)

24. Mary, Mercy and Madrine shared a certain amount of money in the ratio 3:4:5 respectively, if mercy got sh. 200000.

a). Find the amount of money they shared altogether? (2marks)

b). Express Mary's share as a percentage. (2marks)

25. The sum of four consecutive odd numbers is 88,

a). Find the numbers.

b). Workout the median of the number.

26. The table below represents the shopping bill of Mrs. Gere, study it and use it to answer questions that follow.

ITEM	QUANTITY	UNIT COST	AMOUNT
Meat	2 ¹ / ₂ kg	Sh.12,000@kg	Sh.
Rice	3 ¹ / ₄ kg	Sh.@kg	Sh.13,000
Cooking oillitres	Sh.8000@	Sh.6000
Maize flour	1500g	Sh.2000@kg	Sh.
Total expenditure.			Sh.

a) complete the table above. (5marks)

b) If she had sh. 70,000, how much money did she remain with. (1mark)

27. A motorist left town **A** at an average speed of 80km/hr for $2\frac{1}{2}$ hours to town **B**.

a) Find the total distance he covered from town **A** to town **B**. (2mks)

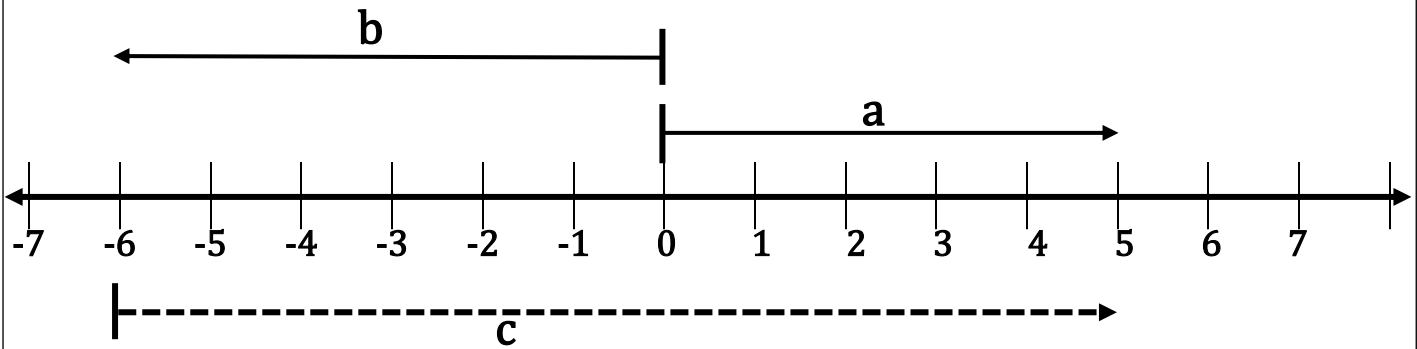
b). If he returned from town **A** to town **B** at an average speed of 50km/hr. How long did he take on his journey? (2mks)

28. The interior angle of a regular polygon is 100° more than its exterior angle.

a) Find the exterior angle. (2mks)

b). Calculate the its interior angle sum. (3mks)

29. Use the number line below to answer the questions that follow.



a) Write the integers represented by the arrows on the number line above. (3mks)

a).....

b).....

c).....

b) write the mathematical statement shown on the number line above. (1mk)

30. Using a ruler, a sharp pencil and a pair of compasses only, construct a triangle **EFG** where **EFG=90°**, line **FG=7.5** cm and **EF=6** cm.

(4mks)

b) Measure line **EG**. (1mk)

31 a) Write 43056 in standard form.

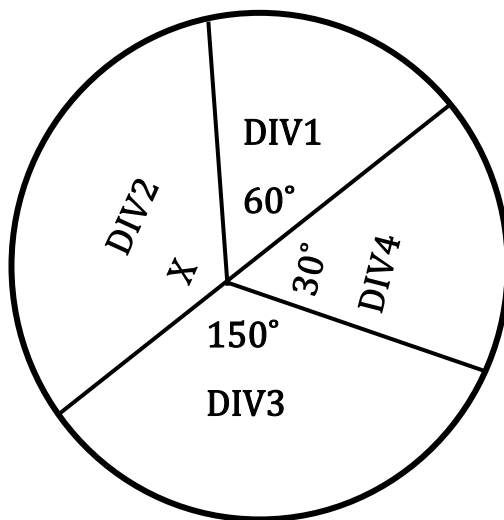
(2mks)

b). Given that $203y = 125_{\text{six}}$, Solve for y.

(3mks)

32. The pie chart below shows the performance of P7 candidates of St. Pius primary school in PLE 2023

DIV 2



a) Find the value of X . (2mks)

b) If 72 candidates passed in division 2, find the total number of candidates in P.7 that year? (3mks)

END