



# THE REAL PRIVATE TEACHERS' VOICE EXAMINATIONS BOARD

## THE REAL VERIFIED UNEB BLUE PRINT ITEMS

### FOR PRIMARY LEAVING EXAMINATIONS

2023

### MATHEMATICS (SET FOUR)

Time allowed: 2 Hours 30 Minutes

Index no:

Random No					Personal No				

Candidate's name: .....

Candidate's signature: .....

School: .....

District: .....

### Read the following instructions carefully

1. This paper is made up of two sections: **A** and **B**.
2. Section **A** has **20** questions (**40 marks**).
3. Section **B** has **12** questions (**60 marks**).
4. Answer ALL questions in both sections **A** and **B**.
5. All answers **MUST** be written in the space provided  
In blue or black ball point pens or ink. All diagrams  
Should be in pencil.
6. Unnecessary crossing of answers will lead to loss of  
Marks.
7. Poor hand writing which cannot be easily read,  
May lead to loss of marks.

FOR EXAMINERS' USE ONLY		
Qn.No	MARKS	SIGN
1-10		
11-20		
21-22		
23-24		
25-26		
27-28		
29 - 30		
31 - 32		
TOTAL		

The Real Private Teachers' Voice Examinations Board 2023.

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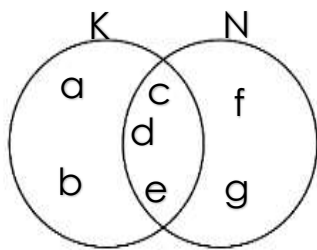
## SECTION A (40 MARKS)

1. Workout:  $46 - 34$

2. Simplify:  $-4 - -11$

3. Change  $101_{\text{two}}$  to base ten.

4. In the Venn diagram below, list all the elements in the complement of set N.



5. Work out:  $\frac{1}{2} + \frac{1}{3}$

6. Simplify:  $2y - 3m + 6y - 8m$



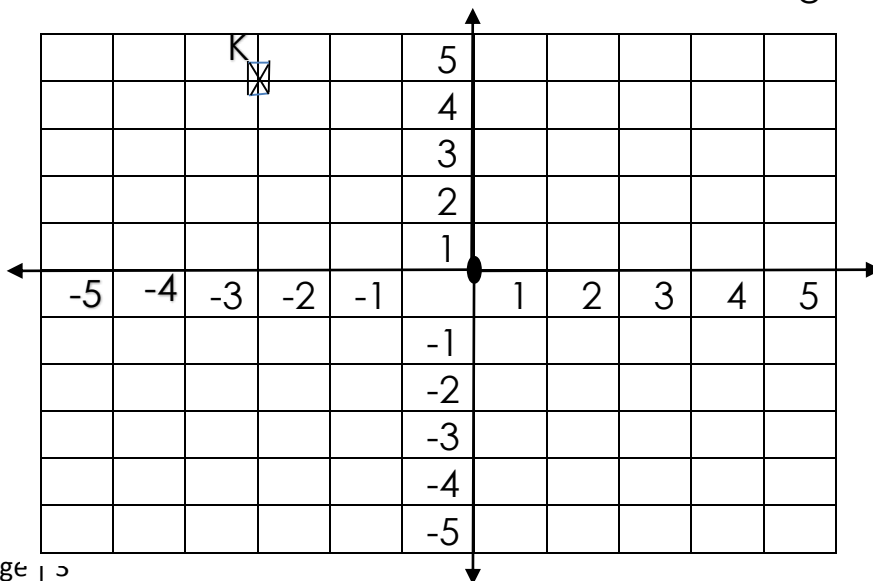
7. Name the regular polygon whose exterior angle is  $36^\circ$ .

8. Write the time 3:56p.m. in the 24-hour clock format.

9. Find the Greatest Common Factor (G.C.F) of 36 and 48.

10. Given that  $a = 2x$  and  $b = 3y$ . Express  $2(a + b)$  in terms of  $x$  and  $y$ .

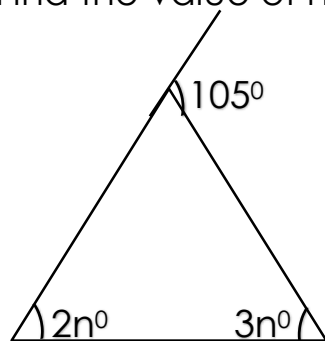
11. State the co-ordinate of K shown on the grid.



12. The cost of 7 pens in a supermarket is Shs3,500. Find the cost of 5 similar pens at the same rate.
13. Share 1,608 sweets among 8 children. How many sweets does each child get?
14. Convert 6.5 square meters to square centimeters.
15. Write "thirty thousand twelve" in figures.
16. Solve:  $r^2 - 7 = 18$

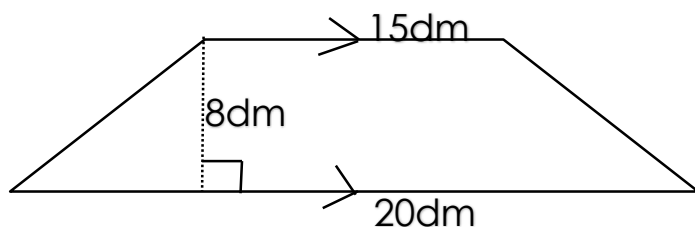


17. Find the value of  $n$  in the figure below.



18. In a class of 120 pupils, 20% are boys and the rest are girls. How many girls are in this class?

19. Calculate the area of the trapezium below.



20. If  $n(A) = 3$ , how many subsets are in set  $A$ ?

### **SECTION B (60MARKS)**

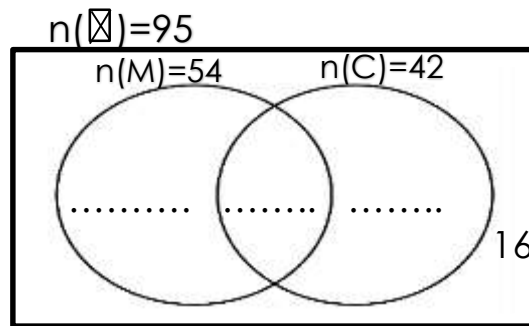
21.a). Workout:  $\frac{0.15}{3.45+6.55}$  (3mks)

b). Express  $0.7272\dots$  as a common fraction. (2mks)



22. Out of the 95 farmers in Saluti Village, 54 grow maize (M), 42 grow cassava (C), some farmers grow both maize and cassava (x) while 16 farmers grow none.

a). Use the above information to complete the Venn diagram below. (2mks)



b). How many farmers grow both maize and cassava. (3mks)

23.a). A rectangular tank whose volume is  $720\text{cm}^3$  measures 10cm by 8cm by h cm. Find the value of h. (2mks)



b). Work out the total area of the metallic sheet needed to make the top and bottom faces. (3mks)

24.a). The interior angle sum of a regular polygon is  $720^\circ$ . Find its number of sides. (3mks)

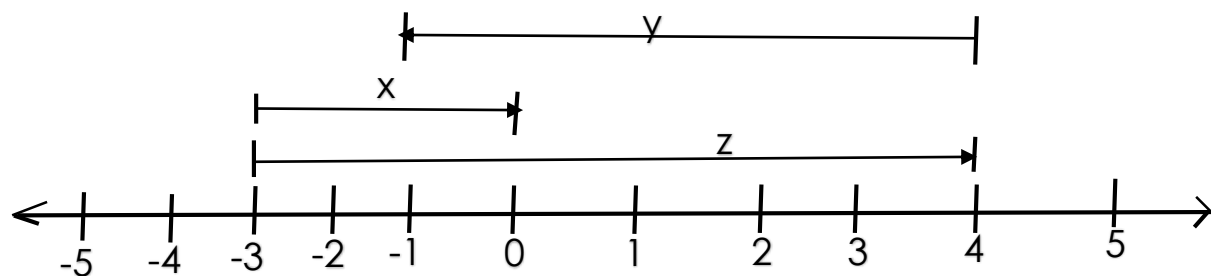
b). Find the size of each exterior angle. (2mks)



25. Alex went shopping and bought the items as shown in the table below. Complete the table. (4mks)

Item	Quantity	Unit price	Total cost
Soap	4 bars	Sh.3,300 each	Sh._____
Sugar	212kg	Sh._____ perkg	Sh.12,000
Paraffin	750ml	Sh.2,700 a litre	Sh._____
Bread	_____ loaves	Sh.4,500 per loaf	Sh.9,0000
<b>TOTAL EXPENDITURE</b>			Sh._____

26. Study the number line below and answer the questions that follow.



- a). What integer is represented by letter? (3mks)  
 $y =$  \_\_\_\_\_  $x =$  \_\_\_\_\_  $z =$  \_\_\_\_\_
- b). Find the absolute value of -9. (2mks)





27.a). Solve for a in:  $\frac{a-4}{2} = \frac{a+2}{3}$

(2mks)

b). Solve and find the solution set for y if  $-3(y - 2) \geq 12$

(3mks)

28.a). A school pays a basic amount of Shs50,000 per month to its Mathematics part-time teacher plus Shs12,000 for each lesson taught a month. If the total amount for that month = y, and the number of lessons per month = x. Write an equation in terms of x and y to show the relationship between the number of lessons and the amount of money paid.

(2mks)



b). Use the equation in (a) above to find the number of lessons taught per month if the total amount paid to the teacher per month is Shs170,000.

29.a). Expand 69.47 using powers of 10  
(2mks)

b). Express 413 in Roman Numeral  
(3mks)

30.a). A motorist travelled from Kampala to Masaka at a speed of 60km/hr for 3 hours. He then continued to Mbarara at a speed of 50km/hr for 2 hours. What distance did he cover altogether?  
(3mks)



b). Calculate the motorist's average speed for the whole journey. (2mks)

31.a). Katrina is 18 years older than her sister. Their total age is 48. How old is Katrina now? (2mks)

b). How old will her sister be after 10 years? (2mks)



32.The table below shows marks scored by some pupils of Primary Seven in mid-term examinations.

Marks scored	20	30	50	60	70	80
No. of pupils	2	1	1	1	3	2

a). What was their modal score. (1mk)

b). Find the median score. (1mk)

c). Find out the mean score of the pupils who scored above 60 marks. (3mks)

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