



# THE REAL PRIVATE TEACHERS' VOICE EXAMINATIONS BOARD

## PRIMARY SEVEN

### THE REAL SPECIAL BEGINNING OF TERM II - 2023

### MATHEMATICS

Time allowed: 2 Hours 30 Minutes

Index no:

Random No					Personal No				

BASED ON  
THE  
PRIMARY SCHOOL  
ABRIDGED CURRICULUM  
FOR UGANDA

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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### **REAL UNEB (PLE) BLUE PRINT ITEM 2023**

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## SECTION A (40 MARKS)

1. Work out **5.4 + 3**

2. Write “**twelve thousand twelve**” in figures.

3. Solve **4 + k = 12**

4. Subtract: 
$$\begin{array}{r} 201_{\text{two}} \\ - 12_{\text{two}} \\ \hline \end{array}$$

5. Find the product of the next two numbers in the sequence  
**1, 4, 7, \_\_\_\_\_, \_\_\_\_\_**

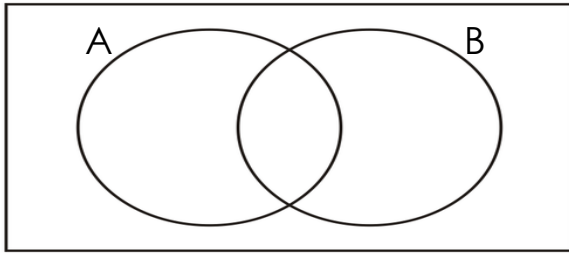
7. Write **144** in roman numerals.

6. In a basket there are **15** ripe mangoes and **5** raw mangoes.  
If one mango is picked at random, what is the probability of picking a ripe mango?




8. At **4:00**<sub>am</sub>, temperature on Mt. Elgon was **-4**<sup>0</sup>C. By **10:00**<sub>am</sub>, it had risen by **10**<sup>0</sup>C. Find the new temperature

9. Shade  $(A \cup B)^c$  in the venn diagram.



10. Which number has been expanded to get?  **$(6 \times 10^3) + (3 \times 10^1) + (4 \times 10^{-1})$**

11. Increase **24** sweets in the ratio of **3:2**.

12. If  stands for **5** tomatoes, draw to represent **25** tomatoes.

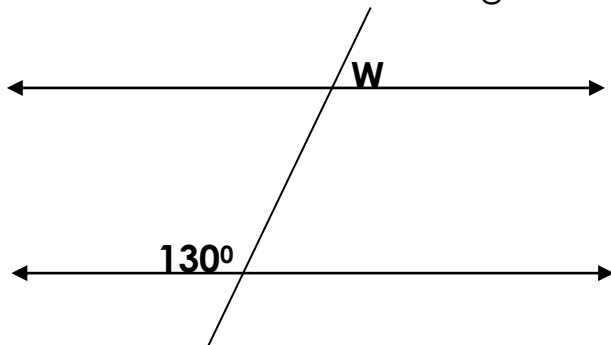
13. Simplify  $\frac{4}{9} \div \frac{2}{3}$

14. The **L.C.M** and **G.C.F** of two numbers is **60** and **6** respectively. If one of the numbers is **15**, find the other number.

15. Given that  $x = \frac{1}{4}$  and  $y = \frac{1}{2}$ , find the value of  **$28x - 6y$** .

16. A man bought a phone at **Shs75,000**. He later sold it and made a loss of **Shs25,000**. Calculate his percentage loss.

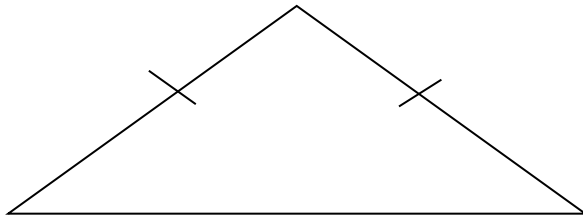
17. Find the value of **w** in the diagram below.



18. A die is tossed once. What is the probability that **a composite number** shows up?

19. Round off **49.98** to the nearest tenths.

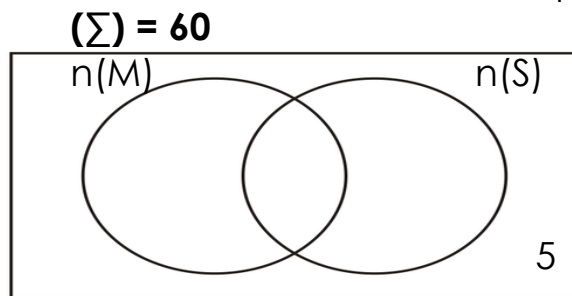
20. How many lines of symmetry are in the figure below?



**SECTION B (60 Marks)**

21. In a class of **60** pupils, **10** pupils like both Mathematics and science, **k** pupils like mathematics only. **30** pupils like science while **5** pupils like neither.

a). Use the above information to complete the venn diagram. (2mk)



(b). Find the value of **k** (2mks)

c) If a pupil is picked from the class, what is the probability of picking a pupil who likes only one subject? (2mks)

22a). Simplify  $\frac{0.384 - 0.33}{0.3 \times 0.9}$  (2mks)

b). Work out  $\frac{3}{4} - \frac{1}{3} \div \frac{5}{6}$  (2mks)

23. Mr. Mustafa went for shopping in the supermarket and bought the following items.

**5**kg of meat at Shs**10,000** per kg.

**500**gm of salt at Shs**1,200** per kg.

**20** tomatoes at Shs**1,000** for every **4** tomatoes.

**3** bars of soap at Shs**6,000**

a) Calculate his total expenditure. (3mks)

b). (b). If he went with Shs**65,000**, find his change. (2mks)

24. A motorist drove at a steady speed of **60**km/hr for **1** hour and **30** minutes from town **A** to town **B**. He returned at an average speed of **36**km/hr.

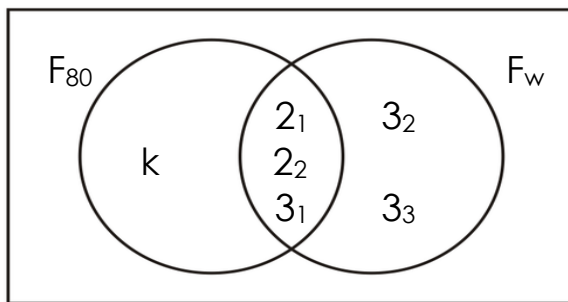
a). How far is town **B** from town **A**? (2mks)



b). Work out his average speed for the whole journey. (3 mks)

25. Use the Venn diagram below to answer the following questions.

a). Find the value of  $k$ . (2mks)



b). Find the value of  $w$ . (2mk)

c). Find the G.C.F of **60** and  $w$  (1mk)

d). Find the L.C.M of **60** and  $w$  (1mk)

26. Pupils of P.6 in a certain school sat for a test and their scores were as shown in the table below.

Marks (%)	50	30	80	45	60	100
No. of pupils	2	3	4	3	5	1

a). What was the range of marks? (1mk)

b). Work out the mean mark of the pupils who scored above **50%** (3mks)



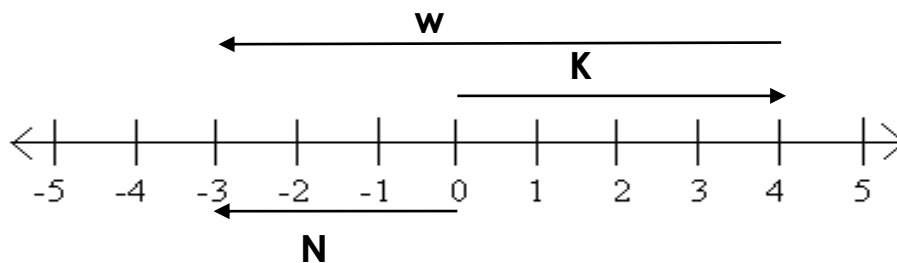
27. Alex, Amon and Agatha shared a certain amount of money in the ratio of **3:2:5** respectively. If Agatha received Shs**15,000**

- a). How much money did Alex get? (2mks)      b). How much money did they share altogether. (3mks)

28a) If  **$102_n = 11_{ten}$**  Find base **n** (3mks)

b). Workout  **$5^2 \times 5 = 125$**  (3mks)

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



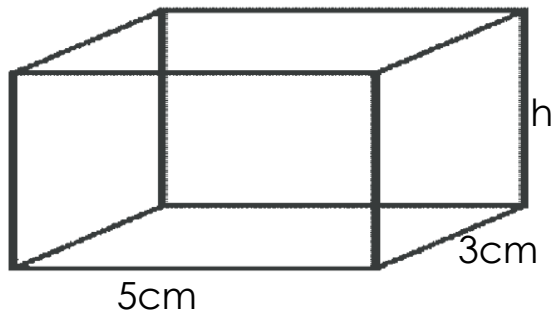
- a). Name the integers marked **W, K, N** (2mks)      b). Write the mathematical sentence shown on the above number line. (1mk)





30. A man is thrice as old as his son. If the difference in their ages is **18** years, how old is the son now? (4mks).

31. The volume of the cuboid below is  **$60\text{cm}^3$** . Use it to answer the questions that follow.



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

b). Calculate the total surface area of the cuboid. (4mks)



32. The time table below describes the journey of a taxi from Bunamubi to Mbale town. Study it and answer the questions that follow.

Stage	Arrival	Departure
Bunamubi		6:00 <sub>am</sub>
Bududa	6:45 <sub>am</sub>	7:00 <sub>am</sub>
Budulo	8:15 <sub>am</sub>	8:00 <sub>am</sub>
Nabumali	9:40 <sub>am</sub>	10:10 <sub>am</sub>
Mbale	11:00 <sub>am</sub>	

a). At what time did the taxi depart from Bududa? (1mk)

b). How long was the stop over at Bubulo stage? (3mks)

c). If the distance between Bunamubi and Mbale town is **200**km, calculate the taxi's average speed for the whole journey. (3mks)

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