THE REAL PRIVATE TEACHERS' VOICE EXAMINATIONS BOARD

NEXT TO PRIMARY LEAVING EXAMINATIONS – 2022

THE VERIFIED UNEB BLUE PRINT ITEM (FOUR)

MATHEMATICS

Time allowed: 2 Hours 30 Minutes

BASED ON THE PRIMARY SCHOOL ABRIDGED CURRICULUM FOR UGANDA

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 2022.

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REAL PRIMARY LEAVING EXAMINATIONS 2022

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SECTION A (40 MARKS)

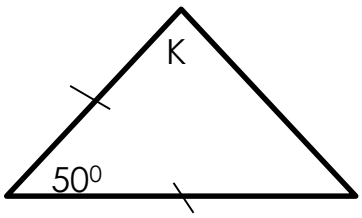
1. Workout **6** tens + **2** ones

2. Express **25**% as a ratio.

3. Write **"Forty-three thousand forty-three"** in figures.

4. Find the next two numbers in the sequence. **1, 6, 4, 9, 7,** _____, _____

5. Find the value of **K**.



6. Add $\mathbf{1011}_{two}$ + $\mathbf{101}_{two}$

7. Solve **3**y – **5** ≤ **13**

8. A meeting that lasted for $\mathbf{1\frac{1}{2}}$hrs ended At **9:30**a.m. At what time did it start?

9. Workout: $\frac{3}{4} \div \frac{1}{2}$

10. The dozen of pens is Shs**6000**. What is the cost of **8** similar pens?

11. Write **CXLIV** in Hindu Arabic numerals.

12. Cheplimo ran **5,000**m in **25**min. What was his average speed?

13. Workout (**4.5**x**145**) – (**45**x**4.5**) using distributive property.

14. By selling a bag at Shs**45,000**, a trader made a loss of Shs**15,000**. Calculate his percentage profit.

15. Subtract $-\mathbf{2} - X$ from $\mathbf{3}x - \mathbf{1}$

16. Mary is the **9th** girl from either side of the line. How many girls were standing in the line?

17. Find the area of a circle whose circumference is **88**cm.

18. Set **K** has **31** proper subsets. How elements are in set **K**?

20. Without dividing, show that **6957** is divisible by **9**.

19. A box contains **5** red pens, **6** black pens and **8** blue pens. If a pen is picked at random what is the probability of picking a red pen?

SECTION B (60mks)

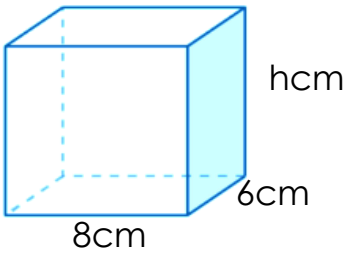
21.a). Simplify $\frac{\mathbf{5.4} \times \mathbf{0.8}}{\mathbf{0.09} \times \mathbf{1.2}}$ (3mks)

b).Simplify; $\mathbf{1/2} + \mathbf{2/3} \div \mathbf{4/9}$. (2mks)

22a). Job, Joab and Jacob shared a certain amount of money in the ratio of **2**:**3**:**5**. If Joab got Shs**24,000**. How much did they share? (3mks)

b). How much more money did Jacob get than Job? (2mks)

23. The cuboid below has a volume of **480**cm^3



a). Find the height in cm. (2mks)

b).Calculate its total surface area.(3mks)

24. Amos went to the Super market and bought the following items.
4kg of meat at Shs**15,000** per kg.
$\mathbf{2^1/_2}$kg of rice at Shs**4,000** per kg.
4 sachets of curry powder at Shs**4,000**
20 tomatoes at Shs**2,000** for every five tomatoes.

a). If he received a discount of **10**%, how much did he pay for all the items.(4mks)

b). Given that she was given a change of Shs**1,200**. How much money did she have at the beginning? (1mk)

25.)The base area of a cylindrical tank is **2200**cm^2 If the tank has a height of **100**cm. Calculate its capacity in litres when it is completely full of water? (5mks)

26. The table below shows how a motorcyclist travelled from town **F** to town **M** through towns **A** and **B**. Study and use it to answer questions that follow.

Towns	**Departure**
*Town **F***	Departure – 9:00am
*Town **A***	Arrival - 10:45am Departure – 11:00am
*Town **B***	Arrival - 12:50pm Departure - 1:05pm
*Town **M***	Arrival - 2:30pm

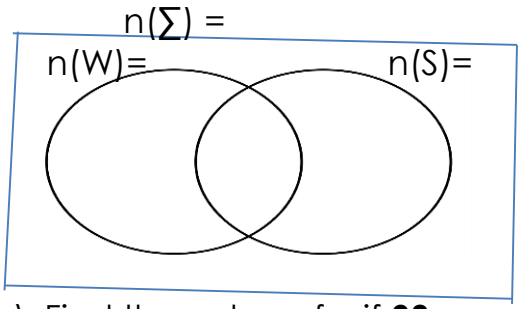
a) At what time did the motorcyclist leave town **A**? (1mk)

b). How long does the motorcyclist take to travel from town **F** to town **M**? (3mks)

c). Find the total stoppage time of the motorcyclist. (1mk)

27). At Peter's birthday, **16** guests took water(**W**) (**x** + **20**) guests took Sodas (**S**) only. **10** guests took both water and Soda while (**x** – **3**) guests took neither of the two drinks.

a). Complete the venn diagram below (1mk)



b). Find the value of **x** if **38** guests took soda. (2mks)

d). If one person is picked at random from the guests. What is the probability that he or she took water only? (2mks)

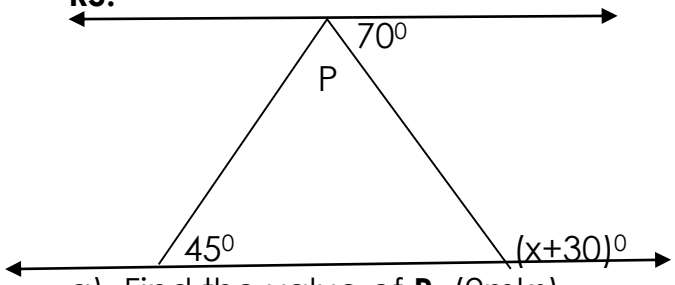
28a). The total surface area of a cube is **54**cm^2. Calculate the length of each side (3mks)

b). Workout its volume. (2mks)

29a). The mean of **9**, **7**, (**2**x + **5**) and **10** is **8**. Find the value of **x**. (3mks)

b). Find their median. (2mks)

30. In the figure below, **PQ** is parallel to **RS.**



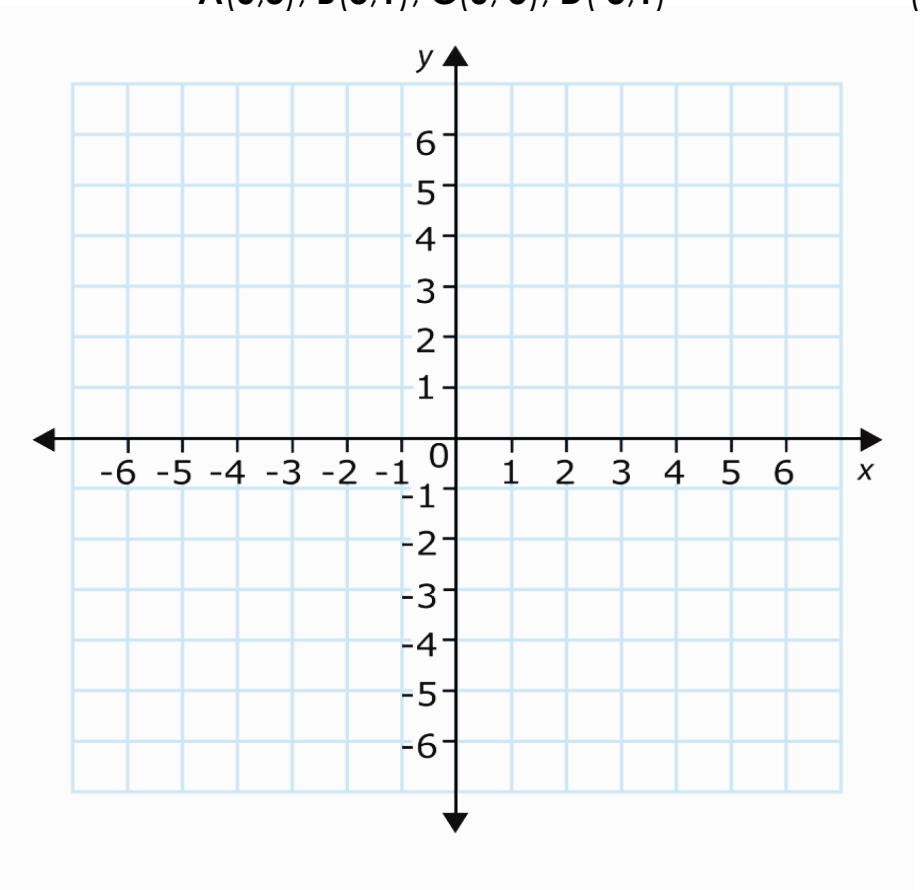
a). Find the value of **P**. (2mks)

b). Find the value of **X**. (3mks)

31. A car uses $\frac{1}{3}$ of a litre to travel **5**km. If a litre of petrol costs Shs**6500**, how much money is needed to buy enough petrol to cover a journey of **300**km? (5mks).

32a). On the coordinate graph below, plot the following points.

A(**0**,**3**), **B**(**3**,**1**), **C**(**0**,-**5**), **D**(-**3**,**1**) (3mks)



b). Join the points **A** to **B**, **B** to **C**, **C** to **D** and **D** to **A** and name the figure formed. (2mks)

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