THE REAL PRIVATE TEACHERS' VOICE EXAMINATIONS BOARD

THE REAL NEXT TO PRIMARY LEAVING EXAMINATIONS

THE REAL SPECIAL MOCK TRIAL SET ONE - 2023

MATHEMATICS

Time allowed: 2 Hours 30 Minutes

BASED ON THE PRIMARY SCHOOL ABRIDGED CURRICULUM FOR UGANDA KAIS60

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

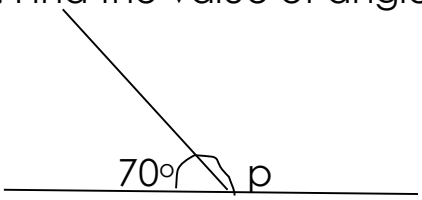
1. Work out **40** ÷ **10**

2. The square root of **(m** + **7)** is **4**. Find the value of **m**.

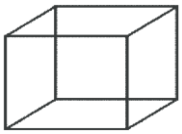
3. Find the value of (**3** tenths + **8** tens).

4. Divide: $\frac{\mathbf{2}}{\mathbf{3}} \div \frac{\mathbf{1}}{\mathbf{3}}$

5. Find the value of angle marked **P**.



6. The figure below shows a cube. Find is capacity in litres.

10cm 

7. Find the next number in the sequence: 17, 12, 8, 5, 3, _____

8. The complementary angle of **(y** + **40°)** Is **30**. Find the value of **y**.

9. Sauda bought a dress at Shs**60,000** and sold it at a profit of Shs**7,200**. What was her selling price**?**

10. A bus carries **59** passengers per trip. How many passengers will the bus carry if it takes **12** trips**?**

11. Work out: **2** + **5** (finite **5**)

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12. Mary kept the following record of rainfall in centimetres: **4, 3, 6, 5, 2, 3, 0**. Find the mode.

13. The radius of a circular kraal is **7**$_{cm}$. Work out its area (take $\pi = {}^{22}/_{7}$).

14. Six cups cost Shs**3,000**. What is the cost of **1**$^{1}/_{2}$ dozens similar cups**?**

15. Mark scored $^{3}/_{4}$ of the total marks in a mathematics exam. Find his percentage failure.

.

16. In the space below, use a protractor to draw an angle of **55°**

17. Find the value of **6** twenty thousand shilling notes

18. Which property of numbers has shown in **6**(**3**+**5**)=(**5**x**6**)+(**6**x**3**)**?**

19. Jane is **4** years older than Alice. If Alice is **7** years old, how old is Jane**?**

20. Find the value of **2** five-fives and **3** fifths.

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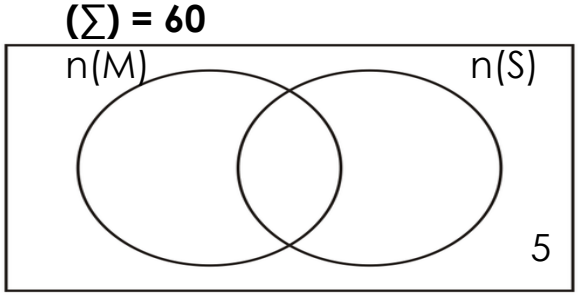
SECTION B (60 Marks)

21. In a class of **30** pupils, **18** pupils play tennis (**T**), **15** play volleyball (**V**), **y** pupils play both games while **2** play neither of the games.

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

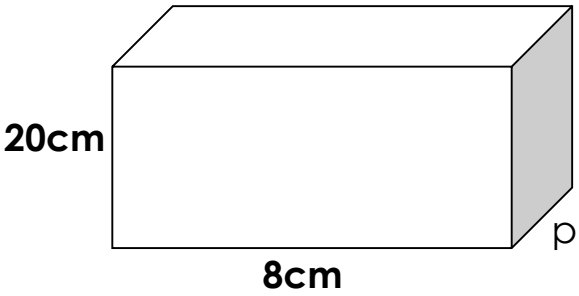


(b). Find the value of **y**(3mks)

22) The sum of three consecutive counting numbers is **18**. If the largest number is **m**, find the smallest number (4mks)

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

a). Find the value of **p** in cm. (3cm)



b). Work out the base area of the tank in cm^2 (2cm)

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24.a) In a class of **60** pupils, $\frac{3}{5}$ of them are girls and the rest are boys. Find the number of girls. (2mks)

b). How many more girls than the boys are in the class**?** (3 mks)

25.a). Using a pencil, ruler and a pair of compasses only, construct triangle **ABC** in which **BC** = **4**cm, angle **ABC** = **90°** and angle **BCA** = **30°** (5cm)

b). Measure the length of **AC**(1mk)

26. Alinda is **5** older than Harrison. If their total age is **37** years, how old will Alinda be in **15** years time**?** (5mks)

27. Find the product of the value of **3** and the value of **6** in **39462**. (3mks)

28a) Which integer is **5** steps to the right of **-2 ?** (1mk)

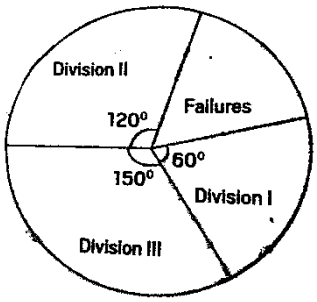
b). If today is **Wednesday**, what day of the week was it **32** days ago**?** (4mks)

29. Olinde lends Shs**300,000** to Mugisha at a sample interest rate of **5**% per year for **48** months.

a). Find the interest gained by Olinde**?** (2mks)

b). How much money altogether did Mugisha pay back**?** (2mks)

30. The pie-chart below shows the performance of **72** candidates of **ABC P/S** in **Mock** examinations.



a). Find the angle in degrees representing failures.(3mks)

b).Find the number of candidates who passed in division one. (2mks)

c). How many more candidates passed in division **3** than division **one?** (3mks)

31.a). Express **36**km/hr in metres per second (2mks)

b). A motorist covered **200**km/hr from **9:00$_{am}$** to **11:00$_{am}$**. Calculate his average speed. (4mks)

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32. a).Which number can be multiplied by **23** to get **253?** (1mk)

c). Write **3456** in scientific notation. (3mks)

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