THE REAL PRIVATE TEACHERS' VOICE EXAMINATIONS BOARD

THE _REAL_ VERIFIED UNEB BLUE PRINT ITEMS
SUPPLEMENTARY EMMERGENCY
FOR PRIMARY LEAVING EXAMINATIONS
2023
MATHEMATICS (SET ONE)
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.

Calls: 0763-499772/0704-816448 **Payments:** 0763 499772**Whatsapp** 0703-495592

Rely on us for weekly, monthly, Beginning of term, midterm and End of term tests. Pre-mocks, Mocks and Pre-PLE Examinations.

OUR PROMISE We are here to ease P.L.E for you. We are ready to **SERVE** you till the last minute.

We are Approachable, Reliable and Affordable

ENGAGE.   INSPIRE .   THRIVE.
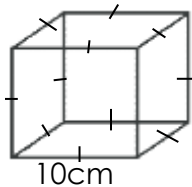
SECTION A (40 MARKS)

1. Add: $\dfrac{1}{3} + \dfrac{1}{3}$

2. Convert $3m^2$ to cm^2

3. 8 men can dig a shamba in 5 days. How long will 4 men take to dig the same shamba?
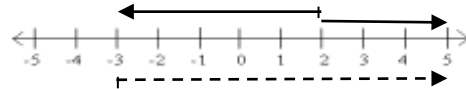
4. Simplify: $3(m + 2) - 2(m - 3)$

5. Find the length of the wire needed to make the edges of the cube below.

10cm

ENGAGE.   INSPIRE .   THRIVE.

6. Write DCXLIX in Hindu Arabic numerals.

7. Find the sum of the next two numbers in the sequence. 1, 2, 6,10,_____, _____

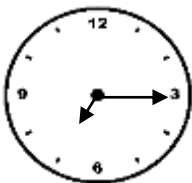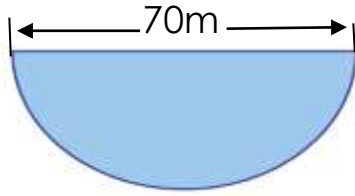8. Write the Mathematical sentence represented on the number line

9. Find the value of **y** if **y** + **20**^{0} and 60^0 are supplementary angles.

10. 70% of the number is 28. What is the number?

11. What is the time shown on the Clock face below?
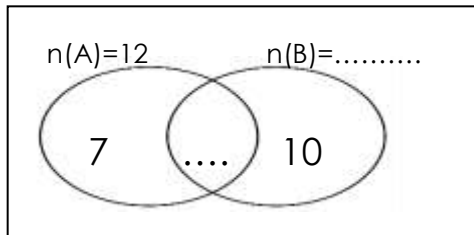
ENGAGE.   INSPIRE .   THRIVE.

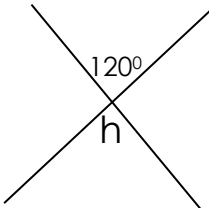12. The figure below represents a circular piece of land. Find its area.

70m

13. A bursar issued receipts for fees numbered from 749 to 79 consecutively. If each receipt was to cost shs 5,000, how much money did he get?

14. Complete the venn diagram.

n(A)=12   n(B)=..........

7   10

15. Find the size of angle h

120^0

h
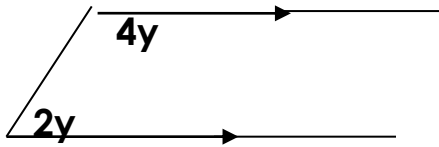
16. Change 13_{five} to base ten.

17. A meeting started at $9:45_{a.m.}$ and ended at $11:50_{p.m.}$ How long did the meeting last?

ENGAGE.   INSPIRE .   THRIVE.

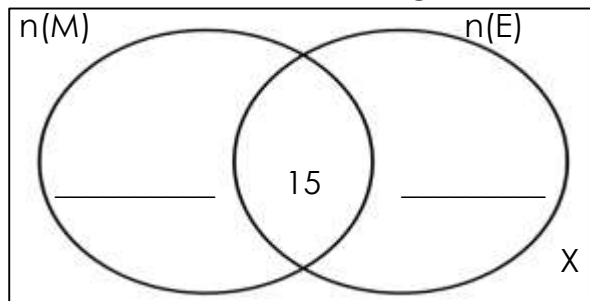18. Find the value of **y** in degrees.

4y

2y

19. Find the greatest common divisor of 18 and 15.

20. Arrange 0.12, 0.2 and 0.02 in ascending order.

SECTION B (60 Marks)

21. In a class 2x + 5 pupils like Math(M) only ,35 pupils like English(E) and 15 pupils like both subjects. X pupils like none of the two subjects.

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

n(M)   n(E)

_____   15   _____

X

b). Find the value of X if 40 pupils like Mathematics. (2mks)

ENGAGE.   INSPIRE.   THRIVE.

c). How many pupils are in the class?(2mks)

22. Study the figure below.

a). Find the length of arc AED. (2mks)

b).Find the area of the shaded part. (Take π as $\frac{22}{7}$) (3mks).

23.Odinga spends 20% of his salary on on water bills, 10% of the remainder on Yaka bills and saves the rest. If Odinga saves sh.504,000, how much does he earn as his salary? (5mks)

ENGAGE.   INSPIRE .   THRIVE.

24. The figure below is a shape of a plot.
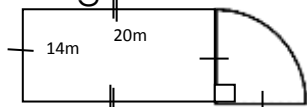
a). Find the distance around the plot. (3mks)
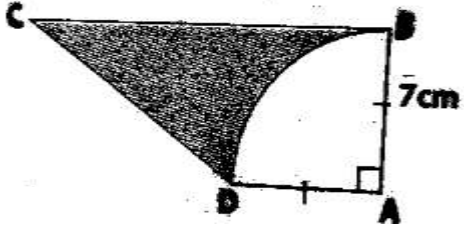
b). Find the area of the plot. (2mks)

25.a). Given the number 7532. Round it off to the nearest hundreds. (1mk)

b). Write it in standard form.(2mks)
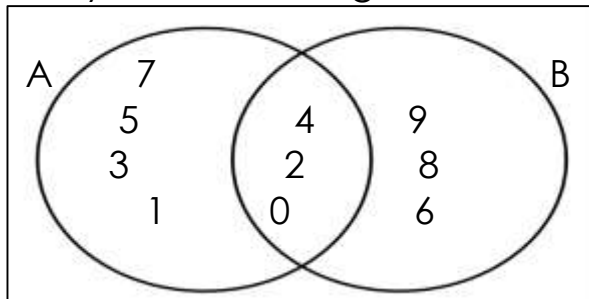
c). Expand it using powers.(2mks)

ENGAGE.   INSPIRE.   THRIVE.

26. The figure below is a trapezium where AB = AD = 7cm, BC = 15cm
Calculate the area of the shaded part. (5mks)

27. a). Change $2\frac{1}{4}$ hours to minutes.(2mks)

b). A music festival started at 11:30am. The lesson took 1 hour and 40 minutes. at what time did the lesson end? (3mks)
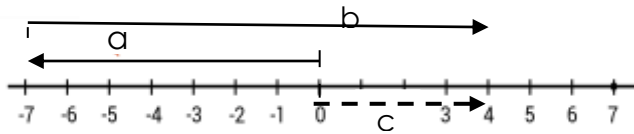
28. Study the Venn diagram below:

a) Find n(AnB). (1mk)

b) What is (B – A)? (1mk)

c) Find number of subsets in AnB.(3mks)

ENGAGE.   INSPIRE .   THRIVE.

29. Find the integer represented by each arrow on the number line below.

a). (a) = _____ (b)=_____(c) = _____ (1mk@)

b). Write the mathematical statement represented on the number line above.

(2mks)

30. a).Using a method of prime factorization, find the LCM of 9 and 12 (3mks)

b). Find the HCF of 9 and 12. (2mks)

ENGAGE.   INSPIRE .   THRIVE.

31. The list below shows prices of different items at KK supermarket.

Sugar_____sh.3,000 per kg

Salt_____sh. 1,000 per kg

Beans_____sh.4,000 per kg

a).How much money does one need to buy 3kg of sugar? (2mks)

b). If Joan bought $1\frac{1}{2}$kg of salt. How much money did she spend?(2mks)

c).If Tom bought all the three items above, how much did he spend? (2mks)

32. Construct a parallelogram ABCD where AB = 7cm, A = 60^0. Drop a perpendicular from D to meet AB at M. (5mks)