THE REAL PRIVATE TEACHERS' VOICE EXAMINATIONS BOARD
THE _REAL_ VERIFIED UNEB BLUE PRINT ITEMS
FOR PRIMARY LEAVING EXAMINATIONS
2023
MATHEMATICS (SET FIVE)
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

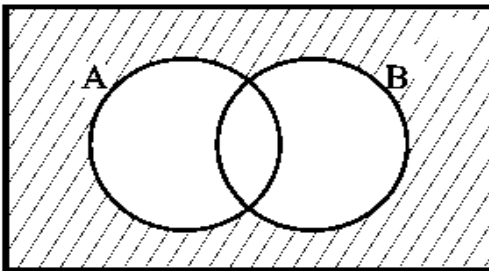### ENGAGE.   INSPIRE.   THRIVE.

SECTION A (40 MARKS)

1. Workout: 5 tens + 4 ones.

2. Write 404040 in words.

3. Simplify -9 - ⁻5

4. Simplify $2\frac{1}{3} \div \frac{2}{3}$
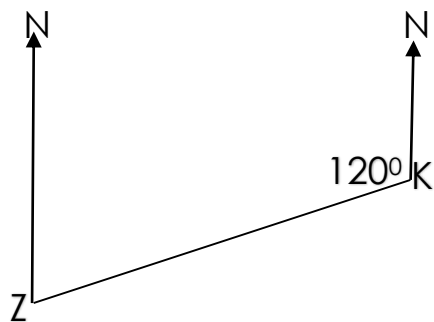
5. Describe the unshaded part in the Venn diagram.

6. Find the product of the next two numbers in the sequence.
   32, 16, 8, 4, 2, 1, _____, _____

ENGAGE.   INSPIRE .   THRIVE.

7. Write XLIX in Hindu Arabic numerals.

8. In the figure below. Find the bearing of K from Z.

9. Work out $(97 \div 6) - (15 \div 6)$

10. Work out: $3 - 4 =$ -------- finite 5

11. A mathematics exam started at 7:30am lasted for $2\frac{1}{2}$hrs. At what time did it end?

ENGAGE.   INSPIRE.   THRIVE.

12. If a=7, find the value of $a^2 + a^0$

13. Express Shs400 as a percentage of Shs1,600.

14. Express 101_{two} in decimal base.

15. Write 0.00853 in scientific form.

16. A die is tossed once. What is the probability that a number exactly divisible by 3 will show up?

ENGAGE.   INSPIRE .   THRIVE.

17. Name the regular polygon whose interior angle is 135^0

18. Subtract x – 1 from 1 – x.

19. The L.C.M of two numbers is 18 and their H.C.F is 3. One of the numbers is 9. Find the second number.

20. The average age of two boys is 12 years. One of the boys is 15 years old. Find the age of the second boy.
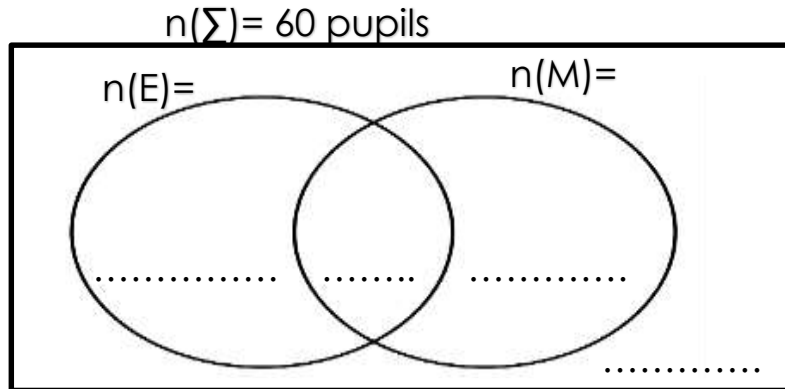
ENGAGE.   INSPIRE.   THRIVE.

SECTION B (60MARKS)

21. In a class of 60 pupils, 30 pupils like English (E), K pupils like Mathematics (M) and 20 pupils like both subjects and 5 pupils like neither of the two subjects.

a). Use the information given above to complete the Venn diagram below.

(2mk)

n(∑)= 60 pupils

n(E)= _____   n(M)= _____

....

....

b). Find the value of K.   (2mks)

c). How many pupils like only one subject?   (2mks)

ENGAGE.   INSPIRE .   THRIVE.

22. The interior angle of a regular polygon is 60^0 more than its exterior angle.
a). Find the size of its exterior angle. (3mks)

b). Calculate the sum of its interior angles. (2mks)

23. Mr. Ogwang drove from Jinja town to his village at an average speed of 90km/hr for $3\frac{1}{2}$ hrs. He rested at home for 30min and then after he went back to Jinja town in 2hrs. Calculate Mulanda's average speed for the whole journey. (4mks)

ENGAGE.   INSPIRE.   THRIVE.

24. a). Workout: $\dfrac{0.72+1.17}{1.2-0.3}$ (3mks)

b). Simplify: $\dfrac{1}{2} - \dfrac{3}{5} + \dfrac{3}{4}$ (2mks)

25. a). Solve $4(x-3) -2(x-1) = 12$ (3mks)

ENGAGE.   INSPIRE .   THRIVE.

b). Simplify: 7x + 3y – 2x – y (2mks)

26. Mr. Odom went for shopping at the market and bought the following items.
- ✓ 3kg of meat at Shs10,000 per kg.
- ✓ 2kg of Rice at Shs4,000 per kg.
- ✓ 500gm of salt at Shs3,000 per kg
- ✓ 1 bunch of banana at Shs20,000.

a). Calculate Odom's total expenditure. (4mks)

b). If he was given a change of 5,000=. How much money did he have at first? (2mks)
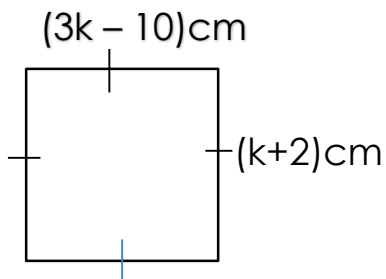
ENGAGE. INSPIRE. THRIVE.

27.a). The average mass of Odongo, Andama and Opio is 48kg. When Opio left the group, their average mass became 42kg. Find the mass of Opio.

(3mks)

b). When the teacher replaced with Opio the average mass became 62kg. Find the mass of the teacher.

(2mks)

ENGAGE.   INSPIRE .   THRIVE.

28. Jemimah is twice as old as Jeremiah. In 5 years' time the difference between their ages will be 20 years. How old is Jemimah. (4mks)

29. Use the figure below to answer the following questions.

(3k – 10)cm

(k+2)cm

a). Find the value of k (3mks)

ENGAGE.   INSPIRE.   THRIVE.

b). Find the area of the figure. (2mks)

c). Workout its perimeter. (2mks)

30. The distance on a map between towns P and Q is 6.4cm. Find actual distance on the ground between the two towns if it is 1:15000 (Give the answer in km). (4mks)

ENGAGE.   INSPIRE .   THRIVE.

31. A tank is $\frac{2}{3}$ full of water. When 600 litres of water are added the tank becomes $\frac{5}{6}$ full. How many litres of water does the tank contain when it is $\frac{3}{4}$ full? (4mks)

32. A piece of land is used as follows; 5 hectares for growing coffee. 10 hectares for growing cassava. 20 hectares for growing banana. 25 hectares for keeping animals. Draw an accurate pie chart of radius 5cm to represent the above. (5mks)

WE ARE THE ONLY REAL ROAD TO SUCCESS

ENGAGE.   INSPIRE .   THRIVE.