THE REAL PRIVATE TEACHERS' VOICE EXAMINATIONS BOARD

THE *REAL* VERIFIED UNEB BLUE PRINT ITEMS

FOR PRIMARY LEAVING EXAMINATIONS

2023

MATHEMATICS (SET SIX)

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		

SECTION A (40 MARKS)

1. Add: 24 + 16

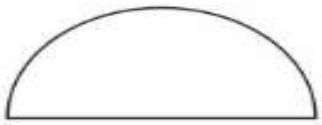
2. Solve: 6 – m = 4

3. Simplify -4 - ⁻6

4. Find the Greatest Common Divisor of 18 and 12.

5. Workout: 2 – 5 (finite 7)

6. Calculate the area of the figure below.



7. Write 20673 in words.

8. If a = $\frac{1}{2}$ and b =⊠, find the value of a – b.

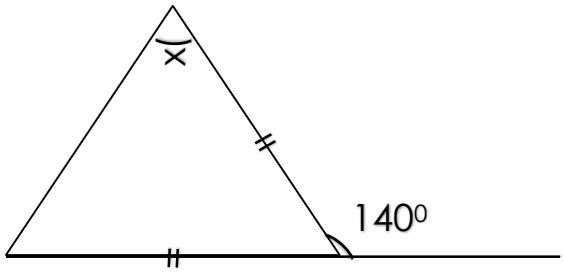
9. A wire of length 88cm was curved to form a circular shape. Calculate its diameter (π = $\frac{22}{7}$).

10. Find the missing number in the sequence; 1, 3, 6, 11, _____

11. Find the value of 4 in the number 243_{five}

12. If $a*b = a^2 + 2b$, find the value of 2*3.

13. Calculate the value of x in the figure below.



14. A forty-minute lesson ended at 10:30am. At what time did it start**?**

15. Jane covered 400m in 45 seconds. Calculate her speed in m/s.

16. After covering ☒ of her journey, Moses still had 40km to go. How long was the journey**?**

17. Use the distributive property to work out: (20 ÷ 5) – (10 ÷ 5)

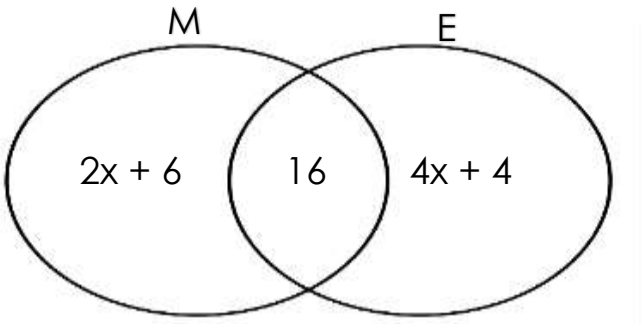
18. Express $\frac{3}{4}$ as a percentage.

19. Uses a pair of compasses and a ruler to construct an angle of 285^0.

20. Write 690.81 in scientific notation.

SECTION B (60MARKS)

21. In a primary seven class, 34 pupils like mathematics (M) and the rest like English (E) as shown the Venn diagram below.



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

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

22.a). Mr. Byaruhanga bought the following items from a shop.

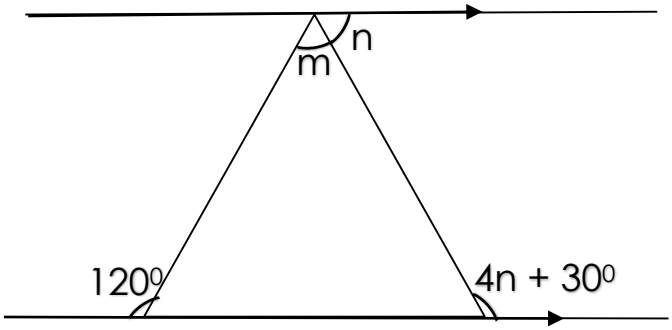
- 2kg of sugar at Shs5,000 each kg.
- 3 loaves of bread at Shs4,500 each.
- 12kg of tea leaves at Shs2,000 per kg.
- 1.5kg of blue band at Shs4,000per kg.

Calculate Mr. Byaruhanga's total expenditure. (5mks)

23.a). Given that a = b, a = 2 and c = 3, find the value of c(4a – b) (3mks)

b). Solve: $2^y \times 4 = 64$ (2mks)

24. **Use the diagram below to answer the questions that follow.**

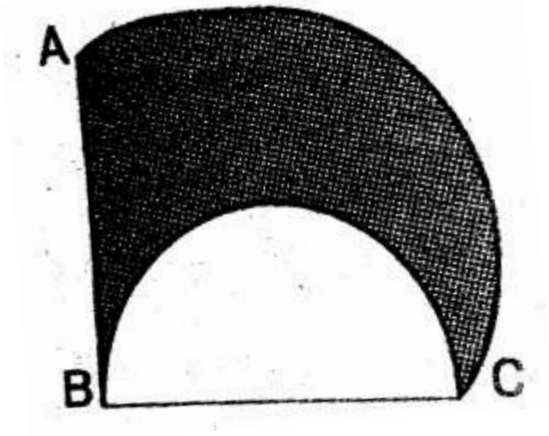


a). Find the value of n. (3mks)

b). Calculate the size of angle m

25. In a school, 40% of the pupils are girls and the rest are boys. If the school has 80 more boys than girls, find the total number of pupils in the school. (5mks)

26. Calculate the length of BC if the area of the semi-circle is $77cm^2$. (5mks)



27.a). Matovu is 14 years older than Namuddu. In 6 years, their total age will be 40 years. How old is Namuddu**?** (3mks)

b). How old was Matovu 5 years ago**?** (2mks)

28. a). A text book was bought at Shs8,000 and was sold at Shs10,000. Calculate the profit. (2mks)

b). Find the percentage profit. (3mks)

29. a). John had some mangoes to give to his two friends. If he gave them 6 mangoes each, he remained with 2 mangoes and if he gave 5 mangoes each, only one mango remained. Find the least number of mangoes that John had. (2mks)

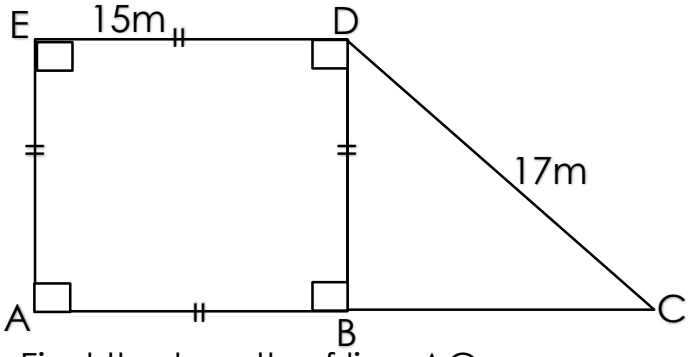
b). Solve: $x + 5 = 3$ (finite 6) (3mks)

30. Find the interior angle sum of a regular polygon whose measure of each interior angle is 140^0 (5mks)

31. a). A school driver left school driving at 80km/hr for Kampala where he arrived after $1\frac{1}{2}$ hours. He rested for 30 minutes before continuing to Jinja at 60km/hr for 2.5 hours. How far is Kampala from the school**?** (2mks)

b). Calculate the total distance from the school to Jinja. (3mks)

32. **The figure below shows John's compound.**



a). Find the length of line AC. (3mks)

b). Calculate the area of John's compound. (2mks)