SUCCESS ACADEMIC FOUNDATION OF UGANDA (SAFU)

PRE - PRIMARY LEAVING EXAMINATION SET V, 2024

MATHEMATICS

Time Allowed: 2 Hours 30 Minutes

EMIS NO						PERSONAL NO		

Candidate's Name: _____

Candidate's Signature: _____

School Name: _____

District Name: _____

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

Read the instructions carefully:

1. This paper is made up of Sections **A** and **B.**
2. Section **A** has 20 short-answer questions. (**40** marks)
3. Section **B** has 12 questions. (**60** marks)
4. Answer **All** questions. **All** answers to both Sections **A** and **B** must be written in the spaces provided.
5. All answers must be written using blue or black ball point pen or ink. Diagrams should be drawn in pencil
6. Unnecessary alteration of work may lead to loss of marks.
7. Any handwriting that cannot be read may lead to loss of marks
8. Do not fill anything in the box indicated **For Examiners' Use Only.**

FOR EXAMINERS' USE ONLY

Qn. No.	MARKS	Final Mark
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
TOTAL		

Turn Over

SECTION A: (40 MARKS)

Questions 1 to 20 carry two marks each.

1. Divide 20 by 5

2. Express 104 in Roman numerals

3. Work out: $\frac{4}{21} \times \frac{7}{8}$

4. Simplify: $3h - 2(4-h)$

5. Simplify: $\sqrt{36} + 70^{\circ}$

6. Use the table below to find th median score.

Number of pupils	3	1	2	1
Marks scored	15	30	25	10

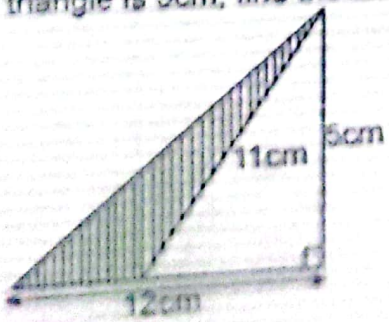
7. Express 750 millimetres into litres

8. Use a pencil and a protractor to draw an angle of 85 in the space below.

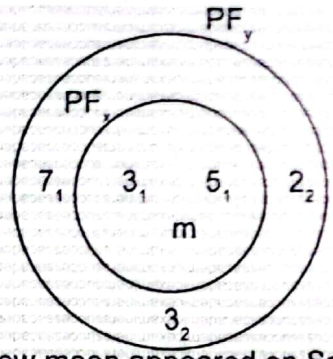
9. A worker's salary was increased from sh.240,000 to sh.280,000. In what ratio did the workers salary increase?

10. Simplify: $y^{-4} \div y^{-12}$

11. The area of the shaded part of the triangle below is $20cm^2$. If the height of the triangle is 5cm, find the length of the base of the unshaded par of the triangle.



12. The prime factor of x and y are represented in the diagram below. Use them to answer the question below.



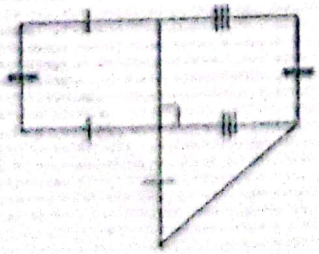
Given that the highest Common Division of x and y is 30, find the value of m.

13. A new moon appeared on Saturday. If a new moon is to appear again after 30 days, what day of the week will it appear again?

14. Round off 30.942 to one decimal place.

15. Mutesa turned clockwise through an angle of 225 and faced North East. In which direction was he facing?

16 The diagram below shows net of a triangular prism with two faces missing. Complete the net by drawing the two missing faces

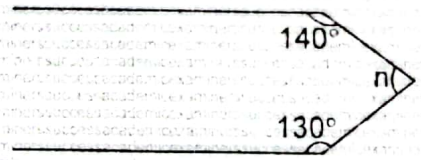


17. The diagram below shows cards with numbers written on them.

4	5	6	7	8	9	11

Find the probability of getting a prime number at random.

18. Given the figure below, find the size of angle n in degrees



19. There are 15 proper subsets in a set. How many elements are in the set?

20. What number when added to $2p - 4$ gives $3p - 5$?

SECTION B

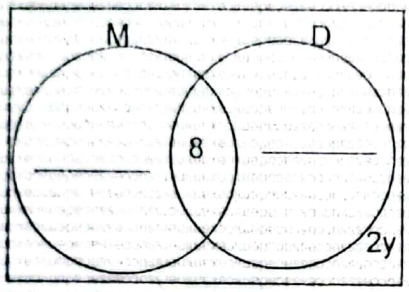
21. In a school there are 1,800 pupils, $\frac{2}{5}$ of them are boys. 20% of the boys are day scholars and 60% of the girls are boarders.

a) How many boys are day scholars? (2 marks)

b) Calculate the total number of boarders in the whole school. (4 marks)

22. In a school, pupils participated in different clubs. 3y participated in Music (M) only 8 pupils participated in both clubs y participated in only debates. 4 more pupils participated in debated (D) but not Music while 2y pupils did not participate in any club.

a) Complete the venn diagram below (2 marks)



b) If 40 pupils participated in only one game, how many pupils were in the school? (3 marks)

23. The total mass of tins of honey in a box is 3.25kg. The mass of each tin is 250g. Find the number of tins in the box. (4 marks)

24. a) Solve the equation: $\frac{3k}{5} + 6 = 2 + k$ (3 marks)

b) Solve for the inequality: $9 - 2y > y + 3$ (2 marks)

25. At a music concert, adults paid sh.20,000 each and children paid sh. 5000 each. If children were 300 and the adults paid a total of sh.9,000,000,

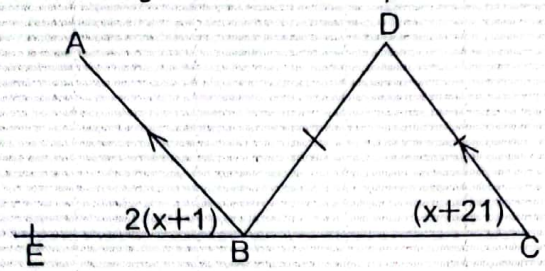
a) How much money was collected altogether? (2 marks)

b) How many people altogether attended the concert? (2 marks)

26. The sum of five consecutive even numbers is 80. If the fourth number is r, find their range. (4 marks)

27. A school was taking pupils to a game park and covered 75% of its journey in 1½ hours. The bus travelled at a steady speed of 80km/hr.
How far is the school from the game park? (4 marks)

28. In the diagram below AB is parallel to DC and DB = DC.



a) Find the value of x. (2 marks)

b) Find angle ABD. (2 marks)

29. The ratio of John's age to Simon's age is 2:3 respectively. In 10 years time their total age will be 70 years. How old is each of them? (4 marks)

30. A woman went shopping with a sum of money sh.52,000 and bought the following items

2½kg of sugar at sh.6,000 per kg

X kg of rice at sh.4,400 a kg

4 bars of soap at sh. 20,000

Transport at sh. 6,000

How many kilograms are represented by X? (5 marks)

31. Using a ruler, a pencil and a pair of compasses only, construct a parallelgram PQRS such that QR = 7cm, diagonal QS = 10cm and PR = 8cm (4 marks)

b) Measure line QS (1 mark)

32. The figure below is a piece of land measuring 41cm by 28cm. A circular pond was dung inside it. Given that the area surrounding the pond is 532cm2, calculate the diameter of the pond. *(5 marks)*