SUCCESS ACADEMIC FOUNDATION OF UGANDA (SAFU)

PRIMARY LEAVING MOCK SET I EXAMINATION, 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 ONL /

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

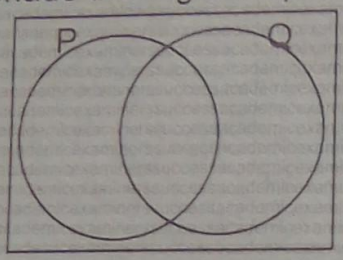
SECTION A: (40 MARKS)

Questions 1 to 20 carry two marks each.

1. Work out: 9×3

2. Expand 4356 using powers.

3. Shade the region representing $(P - Q)'$ in the venn diagram below.



4. Find the next number in the sequence.

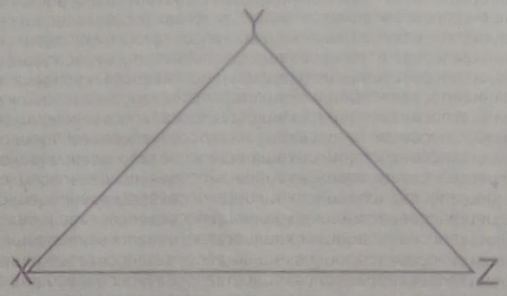
$\frac{1}{3}, \quad \frac{1}{6}, \quad \frac{1}{12}, \quad \frac{1}{24}, \quad$ _____

5. Express 0.4545.....as a common fraction in the simplest form.

6. A wheelbarrow tyre has a radius of 21cm. Find its circumference ($\pi = \frac{22}{7}$)

7. Simplify: $3(m + 2) - 2(m - 1)$

8. Using a pair of compasses, a ruler and a sharp pencil, bisect the angle XYZ in the figure below



9. Simplify: $^{-}9 - {}^{-}7$

10. Find the value of 3 in the number 1302_{five}

11. Convert 0.06 tonnes into kilograms.

12. Jamada scored the following marks in his weekly assessment exercises for term one as follows: 70, 60,70,60,20,60,80.
What was his modal score?

13. An aircraft covered 180km in two hours. Find the speed of the aircraft in metres per second.

14. Given that the subsets of P are { }, {a}, {b}, {a, b}, how many elements has set P?.

15. An examination started at 1430 hours and ended at 4:50p.m. How long was the examination?

16. The exterior angle is half the interior angle of a regular polygon. Find the exterior angle.

17. Solve for y: $3^y \times 3^2 = 27$

18. Grace's salary was increased by 25% to sh. 840,000. What was her salary before the increment?

19. The area of a square garden is $3\frac{6}{25}$ m². Find the length of one side.

20. Trees are planted along a straight road at intervals of 14m. Find the distance from the first to the eleventh pole.

SECTION B

21. Given the number 145.678.

a) Expand the above number using values. (2 marks)

b) Round off the number to two places of decimals. (2 marks)

c) What is a half the place value of 4 in the above number (1 mark)

22. The table below shows exchange rates in ABSA Bank in the month of May 2024. Study it and answer the questions that follow.

Currency	Buying in Ug. sh	Selling in Ug.sh
1 US Dollar ($)	3700	3800
1Euro	4300	4500
1 Kenya sh.	24	25

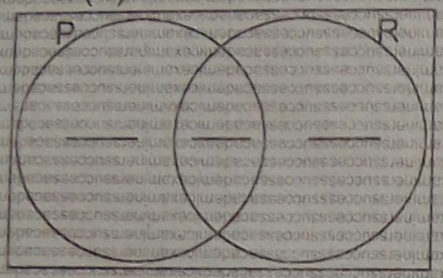
a) How many Euros did Paul get for Ug.sh. 639,000? (2 marks)

b) A tourist came with 520 USD and exchanged for Kenya shillings, how many K.sh did he get? (3 marks)

23. In a class , y + 9 pupils like Posho only (P) , 24 pupils like Rice (R) , y + 5 pupils like both foods and 11 pupils like rice only.

a) Complete the Venn diagram below. (3 marks)

n (ε) =



b) Find the value of y. (2 marks)

c) How many pupils are in the class? (1 mark)

24. a) Solve for y: $\frac{2}{y} = 3 \pmod 7$ (2 marks)

b) A market vendor sold oranges in groups of 7 , 6 remained. When she sold them in groups of 5, 1 remained. Find the least number of oranges she sold? (2 marks)

25. A man spent $\frac{1}{3}$ of his salary on buying drinks, $\frac{1}{2}$ of it on buying food. If he spent 25% of the remainder on rent and was left with sh. 6,000.

a) How much was his salary? (3 marks)

b) How much did he spend on drinks? (2 marks)

26 A cylindrical container of radius 20cm was $\frac{3}{4}$ full of petrol. Akiiki added 22 litres of petrol into it and became full.

a) How many litres does the container hold when full? (3 marks)

(2 marks)

b) Find the height of the container.

27. The ratio of length to width of a rectangle is 5:2 respectively. If its area is $1000m^2$. Find the distance around the rectangle. (5 marks)

28. a) A father is five times as old as his son, In 5 years time , he will be four times as old as his son. How old is each of them? (5 marks)

29 Using a pair of compasses, a ruler and a pencil, construct a rhombus RSTV where RS = 5cm, R= 60°
(4 marks)

b) Measure RTV. (1 mark)

30. The median of 4 consecutive odd numbers is 8. Find their range. (5 marks)

31. A car takes 3 hours to cover a certain journey at 60km/hr but it takes only 2 hours to return through the same distance. Calculate the average speed for the whole journey in metres per seconds. (5 marks)

32. Kalangala Island is 72km South of Buvuma Island. Mat Island is 60km west of Kalangala.

a) Using a scale of 1cm representing12km, show the three Islands on an accurate diagram (4 marks)

b) What is the bearing of Buvuma Island from Mat Island (1 mark)

END