

SUCCESS ACADEMIC FOUNDATION OF UGANDA (SAFU)

PRE - PRIMARY LEAVING EXAMINATION SET IV, 2022



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:

**FOR EXAMINERS' USE
ONLY**

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

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. Subtract 602 from 904.

2. Work out: $\frac{12}{15} \times \frac{4}{3}$

3. What is the relationship of set P and T in the Venn diagram?



4. Arrange the following integers in descending order

-4, 0, 5, -9, 3, 7, 2, 4

5. Given that $2^n = 64$, find the value of n

6. Write in figures Four hundred seventy five thousand eight hundred ninety three

Use a dial to work out $2 \times 3 \pmod{5}$

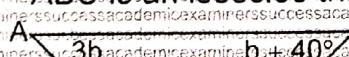
8. The average weight of 3 boxes is 80kg. If 2 of them weigh 90kg and 85kg respectively, find the weight of the third box.

9. What angle is made by a minute hand of a clock in 20 minutes?

10. Simplify $3(p - q) - (p + q)$

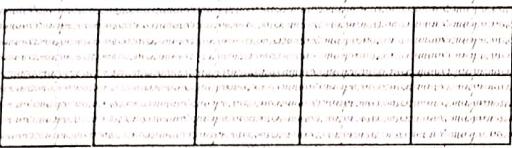
11. Cooking oil is sold in 250ml packets. How much would Alex pay for two litres of cooking oil if the market price of $\frac{1}{2}$ litre is sh.6000.

12. ABC is an isosceles triangle. Find the value of b.



13. A bicycle wheel has a diameter of 56cm. Find the number of revolutions it will make to cover a distance of 1760 cm.

14. Shade 30% of the figure below



15. In the space below, draw a net of a cylinder

16. Peter planted trees covering a distance of 240 metres. If the trees were 20 metres apart, how many trees did he plant?

17. Moses had money notes in a bundle numbered consecutively from km 2988241 to km 2988260. If the notes were for sh 5000 each, how much money did he have?

18. Express 0050 hours in a 12-hour clock system

19. Using a pair of compasses and a ruler. Only construct an angle of 75°

20. Express $12\frac{1}{2}\%$ as a ratio in the simplest form

SECTION B (60 MARKS)

21. A trader bought 12 boxes of apples. Each box contains 30 apples. He sold the apples in heaps of threes at sh. 2000 each heap.

a) How much did the trader get after selling all the heaps? (3 marks)

b) If he spent sh. 200,000 on buying the apples, calculate his percentage profit. (2 marks)

22. The table below shows how Mr. Mukajanga spends his monthly salary. Use it to answer the questions that follow.

Item	percentage
food	20%
school fees	K
car expense	15%
saving	15%
others	10%

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

b) If he spends sh. 60,000 more on food than the car expense, how much was his salary? (3 marks)

23. 2 of a piece of cloth was used for making a dress and 750cm remained

3

a) Find the length of the whole cloth.

(3 marks)

b) If a 500cm piece of cloth costs sh. 12,000, find the cost of the whole cloth.

(2 marks)

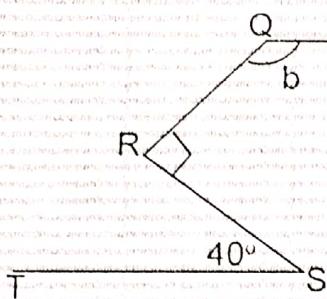
24. a) Solve $3(x-2) - 2(x+4) = 16$ (3 marks)

b) If $1x^2 = 12$, find the value of x (2 marks)

3

25. In a class, there are 20 more girls than boys. If the percentage of girls in this class is 60%, find the total number of pupils in the class. (5 marks)

26 In the figure below, angle QRS is a right angle and angle RST is 40° .



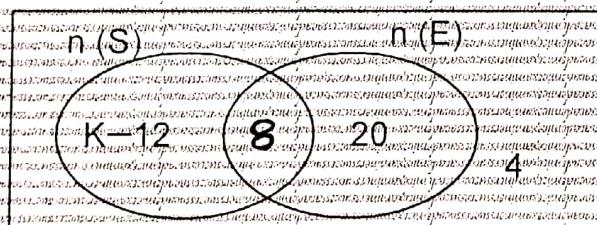
a) Find angle b

(3 marks)

b) What is half of angle b?

(2 marks)

27 The diagram shows the P.7 pupils of King Erodde Primary School who like English(E) and Science(S).



a) If 30 pupils like science only, find the value of k

(2 marks)

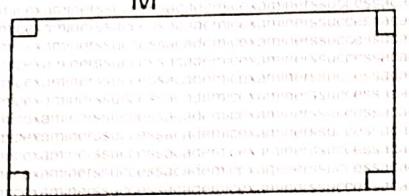
b) How many pupils like science?

(1 mark)

c) What is the probability of picking a pupil who likes the English subject in the class?

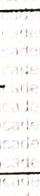
(2 marks)

28. A rectangle M has the same perimeter as square N.



12m

18m



12m

(3 marks)

a) Calculate the value of y

b) Calculate the area of the square.

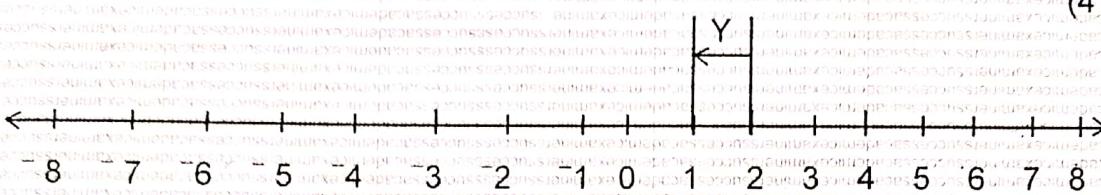
29 Aminah was sent to the shop with sh. 50,000 to purchase items as per the table below.

ITEM	QUANTITY	PRICE PER UNIT	TOTAL COST
Rice	3kg	sh. 3,600 per kg	sh.
Meat		sh. 14,000 per kg	sh. 28,000
Peas	1½ kg	sh. 6,750 per kg	sh.
Salt	250gm	sh. 1,000 per kg	sh.
TOTAL EXPENDITURE			(5 marks)

a) Complete the table

b) What change did Amina have after purchasing all the items? (1 mark)

30 The sum of four consecutive integers is -2 . If the arrow marked y on the number line below represents the second integer, find the remaining three integers. (4 marks)



31. The figure below is a cuboid. Study and use it to answer the questions that follow.

$(2n - 3) \text{ cm}$

$(n - 2) \text{ cm}$

$(n \text{ cm})$

$(n + 2) \text{ cm}$

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

b) Find the volume of the cuboid. (3 marks)

32. a) Using a sharp pencil, ruler and a pair of compasses only, construct a triangle ABC where AB=6cm, AC=4cm, and angle BAC=120° (4 marks)

b) Measure line BC (1 mark)