ATLAS JUNIOR ACADEMY – LUGOBA NABWERU

END OF TERM TWO EXAMINATION 2023

MATHEMATICS

PRIMARY SIX

Time allowed: 2 hours 30 Minutes

Name: ………………………………………………………………..…………. ……………………………

Read the following instructions carefully.

FOR EXAMINER'S USE ONLY

1. This paper has two sections: A and B
2. Section A has 20 questions (40 marks)

3. Section B has 12 questions (60marks)
4. Answer all questions. All answers to both sections A and B must be written in spaces provided.

5. All answers must be clearly written using blue or black ball point pen or ink.

6. Unnecessary changes of work may lead to loss of marks.

7. Any handwriting that cannot be easily read, may lead to loss of marks.

8. Do not fill anything in the boxes indicated. For official use only.

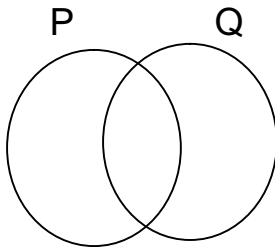| FOR EXAMINER'S USE ONLY		
Qn. No.	MARKS	EXR'S NO.
1 – 10		
11 – 17		
18 – 21		
22 - 24		
25--26		
27 -28		
29- 30		
31		
32		
TOTAL		

SECTION A (40 MARKS)

1. Multiply: 3 x 2=

2. Write 40262 in words.

3. Solve $2y + 3 = 11$

4. In the figure below, shade the region $Q - P$.

P   Q

5. Find the next number in the sequence: 1, 4, 9, 16, 25, _____

6. Round off 6372 to the nearest hundreds.

7. List down the factors of 18.

8. Increase 10kg in a ratio of 3:2

9. A mathematics lesson started at 2:35p.m and ended at 3:45p.m. for how long did the lesson last?

10. Given that ⬭ represents 8 eggs, draw pictures to represent 48 eggs.

11. In a class of 53 pupils, 21 are boys. What is the probability of choosing a girl at random to be a class monitor?

12. The school bursar withdraw two thousand shilling notes numbered consecutively from AP4968211 to AP 4968220. Find the number of notes the bursar withdrew.
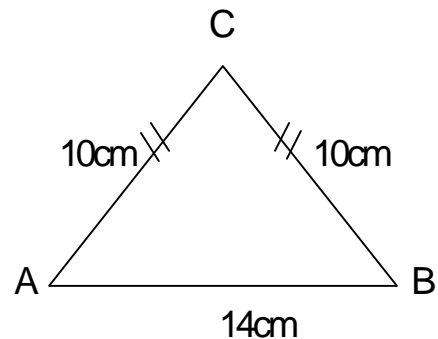
13. Without dividing, show which of the numbers is divisible by 3.
167 or 144

14. Work out: 0.16 ÷ 0.4

15. A school library has 14 cupboards and each cupboard has 3 shelves. If there are 55 books on each shelf, how many books are in the school library altogether?

16. Find the square root of sixty – four.

17. Work out the perimeter of the figure below.

18. Change $\frac{2}{5}$ to a decimal fraction.

19. A business man borrowed sh 240, 000 from centenary Bank to be paid bank after 3 years at a rate of 4% per annum. Calculate the simple interest paid.

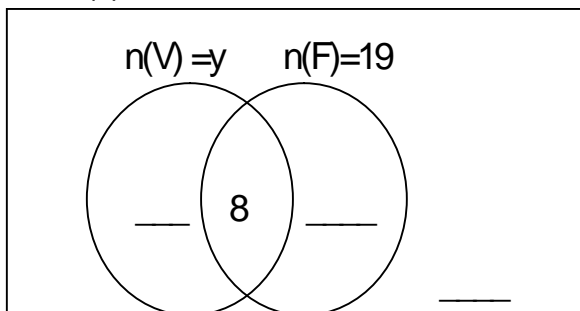20. Using a pair of compasses, a ruler and a pencil only, construct an angle of 45^0 in the space below.

SECTION B (60 MARKS)

21. In a class of 36 pupils, 12 play Volleyball (V) only, 11 play Football (F) only, 5 play neither of the two games while 8 play both games.
   a) Use the above information to complete the Venn diagram below.   *(3marks)*

   $n(\varepsilon) = 36$

   n(V) =y   n(F)=19

   ___   8   ___

   ___

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

22. a) Work out: $\dfrac{1.6 + 3.8}{0.09}$ *(3marks)*

b) Simplify: 14 + 2 of 3   *(2marks)*

23. a) Draw beads of the number **4201** on the abacus below.   *(2marks)*

      Th   H   T   O

b) Write 3409 in expanded form using powers of 10.

       (2marks)

24. a) A care travelled for 2 hours at an average speed of 60km per hour. Calculate the distance it covered.   *(2marks)*

b) Subtract: Hrs   Min   *(2marks)*

            7   : 2 5

      -    3   : 4 5

25. The table below shows the rates at which different currencies are sold and bought in a commercial bank during this month of August 2023.

Currency	Buying in Ugsh	Selling in Ugsh
1US Dollar ($)	3700	3800
1 Euro (ε)	4200	4250
1 Rwanda Francs (Rev.F)	5	6

a) How many Euros can Ben get from Ugsh. 127500? *(2marks)*

b) Amina has come from Rwanda with 380,000 Rwanda Francs and wants to exchange her money for US dollars. How many US dollars can she get from the bank? *(3marks)*

26. Amanya, sadat and Kato shared 63 oranges in the ratio 2:4:3 respectively. How many oranges did each boy get? *(4marks)*

b) How many more oranges did Sadat get than Amanya? *(2marks)*

27. Using a ruler, a pencil and a pair of compasses only, construct an equilateral triangle ABC of side 6cm. *(4marks)*

b) Calculate the perimeter of the figure. *(1mark)*

28. Akello kept the following daily records of the number of people who visited their home in a week.3, 5, 2, 0, 3, 5, 3
 a) Work out the mean of the records. *(2marks)*

b) Find the modal record kept. *(1 mark)*

c) Calculate the range of the records kept. *(1 mark)*

29. a) Arrange the following fractions in order starting with the largest.
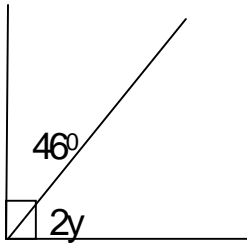
$\frac{2}{3}, \frac{3}{4}, \frac{1}{2}$
(4marks)

b) The LCM of two numbers is 36 and their GCF is 6. Find the first number if the second number is 12. *(2marks)*

30. a) Find the value of y in the figure below. *(3marks)*

46⁰

2y

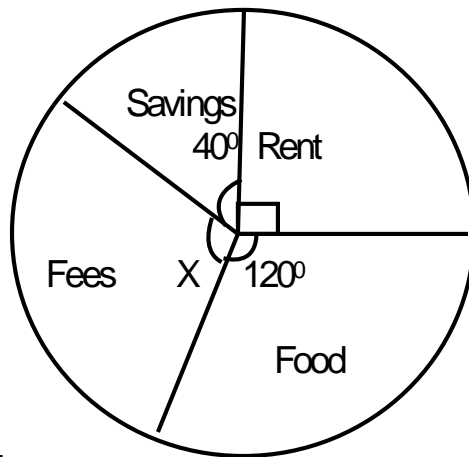b) Given that X and 72⁰ are supplementary angles, find the value of X. *(2marks)*

31. a) Solve : P + 2P = 21 *(2marks)*

b) Bahat is 7 years older than his sister. If their total age is 21 years, how old is Bahat's sister? *(3marks)*

32. The pie chart below shows Mutebi's monthly rexpenditure of his salary.

a) Find the value of X. *(2marks)*

b) If Mutebi earns sh 480,000 per month, how much money does he spend on food? *(3marks)*

c) What fraction of his salary does he save? *(1mark)*