EDUCATION SOURCE 2024 (What's App 0779680288)

END OF MARCH EXAMINATION TERM ONE (External) *2024*

MATHEMATICS

NAME: _____

INDEX NUMBER									

Signature: _____

Stream _____

Date _____

EXAMINER'S USE ONLY

A	
B	
TOTAL	

Read the following instructions carefully:

1. **This paper is made up of section A and B.**
2. **Section A, Sub section I, has 30 questions carrying 30 marks and Sub section II has 20 questions carrying 20 marks.**
   Section B has 5 questions, each carrying 10 marks.
3. **Answer ALL questions. All answers to both section A and B must be written in the spaces provided.**
4. **All answers must be written in blue ink.**
5. **Any handwriting that cannot easily be read will lead to loss of marks.**
6. **Unnecessary alteration of work may lead to loss of marks.**
7. **Show all the necessary side work in pencil.**

PARENT'S COMMENT	SIGNATURE

SECTION A: 40 MARKS

*Answer **all** the questions in this section*

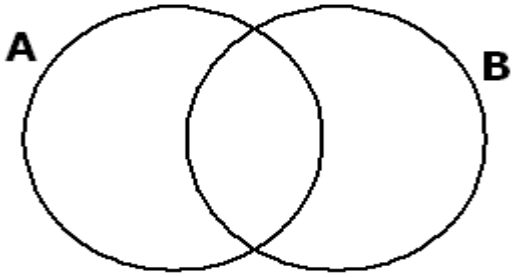
*Questions **1** to **20** carry two marks each*

1. Work out:

$$\begin{array}{r} 3 \\ \times\ 5 \\ \hline \\ \hline \end{array}$$

2. Add: $^{3}/_{5} + ¼$

3. Shade the region representing set A on the Venn diagram below.



4. Write XXIX in Hindu Arabic numerals.

5. Simplify: $\bar{8} - \bar{8}$

6. Solve: 4 + k = 13.

7. Using a pair of compasses, a ruler and a pencil only, construct an angle of 30^0 in the spaces provided below.

8. Change 36 Km/ hr to m/s.

9. The mean mark of 1, 3, 4, 5, y, 8, and 13 is 13. Find the value of y.

10. Find the next two numbers in the sequence: 1, 2, 4, 7,

_____, _____.

11. Subtract: 201_{four}

-13_{four}

12. Work out: 3.8 + 0.3

13. In a basket, there are 15 good eggs and 5 rotten ones. If one egg is picked at random, what is the probability of picking a rotten egg?

14. 1 crate of soda contains 24 bottles. How many crates of soda contain 504 bottles?

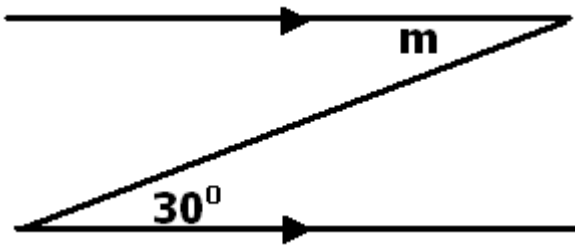
15. Write in figures: “Twelve thousand seven.”

16. Write 0.89 in standard form.

17. Given that P = {1, 2, 3, 4} and Q = {2, 4, 6, 8,9},
find Q – P.

18. Given that (*) stands for average, find the value of
(5*3).

19. In the diagram below, find the value of m.



20. The ratio of oranges to mangoes is 2:3. If there are 12 mangoes in a basket, how many oranges are there in the basket?

SECTION B: 60 MARKS

*Answer **all** questions in this section*

Marks for each question are indicated in brackets

21. (a) Work out: $\frac{0.28 \times 0.24}{0.14 \times 1.2}$ **(3 marks)**

(b) Solve: $2(3a - 5) - 3(1 - a) = 14$ **(2 marks)**

22. A mother bought the following items:

- **2 loaves of bread at 7,000/=**
- **250g of ground nut paste at 4,000/= per Kg.**
- **2 ½ litres of milk at 1,000/= per litre.**
- **3 Kg. of rice at 3,200/= per Kg.**

(a) How much money did she pay for all the items? **(5 marks)**

(b) Find her balance if she had a fifty thousand shilling note.
(1 mark)

23. Given that y = x + 2. Complete the table below correctly. **(5 marks)**

x	$^{-}1$	…….	2	……..	$^{-}4$
y	……	0	……	5	……

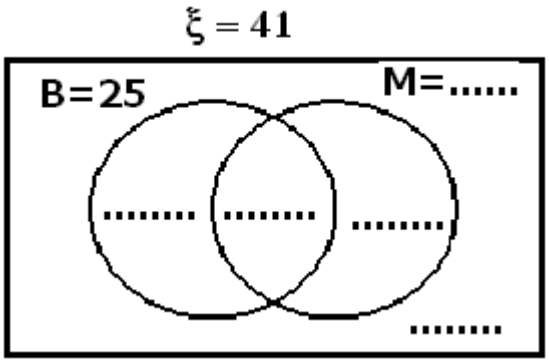
24. (a) Which number has been expanded to give

$(5x10^{2}) + (3x10^{0}) + (4x10^{-1})$ **(3 marks)**

(b) Simplify: (36 x 17) + (14 x17) using the distributive property. **(2marks)**

25. There are 41 pupils in a class. 25 like Busera (B), 7 like both Busera and Munanansi, a + 5 like Munanansi only (M) while 4 dislike the two drinks.

(a) Complete the Venn diagram given below using the above information. **(2 marks)**



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

26. (a) The market price of a book is 4, 000/=. If a customer is offered is offered a discount of 10%, how much was the discount?

(2 marks)

(b) How much money did the customer pay? **(2 marks)**

(c) Write 0.727272… as a common fraction **(2 marks)**

27. (a) Using a pair of compasses, a ruler and a sharp pencil only, construct triangle LMN where LM=7cm, angle NLM = 45^0 and angle LMN = 30^0. **(4 marks)**

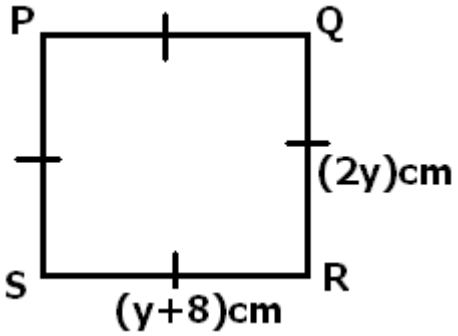
(b) Measure the length of LN. **(1 mark)**

28. (a) Find the value of X in 3 + X = 2 (finite 5) **(3 marks)**

(b) Use a clock dial to find the value of w in 2 – 3 = w

(finite 5) **(2 marks)**

29. Given that PQRS is a square.



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

(b) Calculate the area of the square. **(3 marks)**

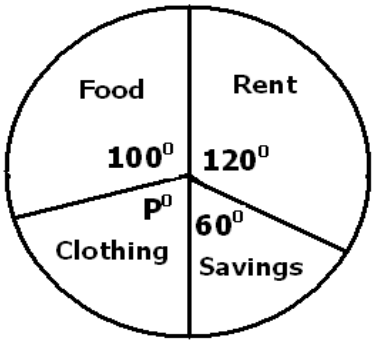
30. The medium of 7 integers is 2.

(a) Find their range. **(2 marks)**

(b) Arrange $^{+}3$, $^{-}8$, 0, $^{-}1$ in descending order. **(2 marks)**

(c) What integer is 8 steps to the right of $^{-}3$? **(1 mark)**

31. **The pie chart shows how Johnson spends his monthly salary. Study it and answer the questions that follow.**



(a) Find the val **(2 marks)**

(b) If he spends 40,000/= on clothes, how much is his monthly salary? **(2 marks)**

(c) How much more money does he spend on food than on savings? **(2 marks)**

32. Kiprotich ran a cross-country race at a speed of 60 Km/hr for 2 hours from Kampala to Jinja. He returned at a speed of 40 Km/hr. Calculate the average speed for the whole journey.
(4 marks)

END