

# RAAYAT ISLAMIC NURSERY & PRIMARY SCHOOL

P.O BOX 8296 KAMPALA MAKINDYE II SALAMA ROAD

PRIMARY SIX MID-TERM III EXAMINATION 2022

## MATHEMATICS

NAME: .....

TIME ALLOWED

INDEX NUMBER:

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2hrs: 30min

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

*Read the following instructions carefully:*

*The paper has two sections A and B*

*Section A, has 20 short questions (40 marks)*

*Section B, has 12 questions (60 marks)*

*Answer ALL sections A and B*

*All answers MUST be written using a Blue or Black ball-pointed pen and ink.*

*Un-necessary alternation of work may lead to loss of marks*

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

*Do Not fill any thing in the boxes shown. "FOR EXERMINERS' USE ONLY"*

FOR EXERMINERS' USE ONLY		
QN.NO	MARKS	SIGN
1 – 10		
11 – 20		
21 – 30		
31 – 40		
41 – 50		
51		
52		
53		
54		
55		
TOTAL		

## SECTION A

1. Work out  $32 \times 3$

2. Write 69019 in words.

3. Find the number which has been expanded below  
 $(3 \times 10^2) + (3 \times 10^{-1})$

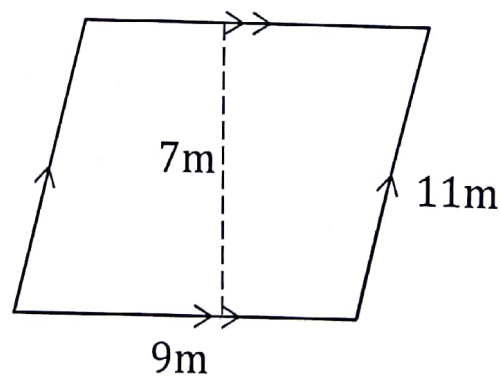
4. Write 9:30am in the 24 hour clock.

5. Given that  $a = 3$  and  $b = 2$ . Find the value of  $a^2 - b^2$ .

6. Work out  $\frac{3}{4} + \frac{2}{3}$

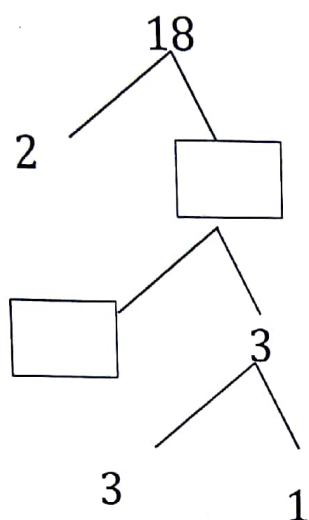
7. Find the next two numbers in the sequence below  
2, 3, 5, 7, \_\_\_\_\_, \_\_\_\_\_.

8. Work out the area of the figure below.



9. Simplify  $-4 - -6$

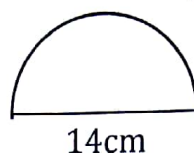
10. Fill in the missing values in the factor tree below.



11. Using a ruler, a pencil and a pair of compasses only, construct an angle of  $60^\circ$ .

12. Grace started the journey at 11:30am and reached her destination at 12:10pm. How long was the journey.


13. Calculate the perimeter of the figure below (Take  $\pi = \frac{22}{7}$ )



14. Work out
- | Hours | Minutes |
|-------|---------|
| + 5   | 20      |
| 2     | 54      |
| <hr/> |         |

15. Express 21 as a binary base.

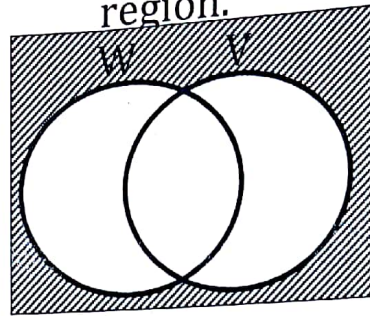
16. Increase 1800 goats in a ratio of 4:3.

17. If  represents 4 balls. Draw picture to show 24 balls.

18. Write LXVI in Hindu - Arabic numerals.

19. Find the range of 3, 4, 5, and -2

20. Describe the un-shaded region.



### SECTION B

21. (a) Workout

$$\frac{1.2 \times 2.7}{0.03 \times 0.6}$$

b) Express 0.25 as a common fraction in its simplest form

22. A rectangular garden whose length is 15meters has an area of  $180\text{m}^2$

a) Find the width.

b) Calculate the total distance around the garden.

23. Solve for d.

$$4d - 4 = 16$$

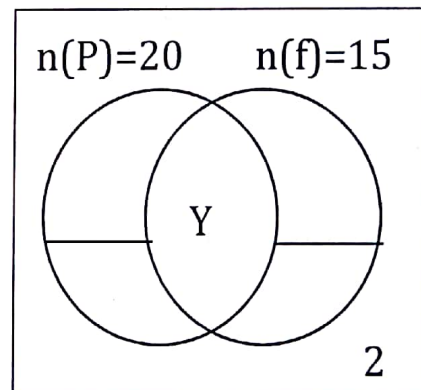
b) Dawn is five years older than Nicky. Their total age is twenty three years. How old is Dawn and Nicky.

24. Aisha saved sh 360,000 with a bank that offer a simple interest rate of 30% per year. Find the total interest after 3 years.

b) Calculate the total amount of money Aisha will have in the bank after three years.

25. In a group of 30 pupils 20 take Pepsi (P), 15 take Fanta (F) and Y take both drinks while 2 take neither.

a) Show the information above on the venn diagram below.



b) Find the value of Y.



c) What is the probability of choosing a pupil at random who drinks Pepsi?

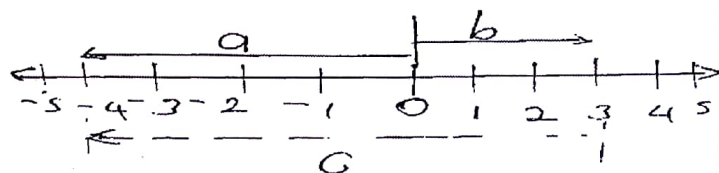
26. Give the place value of 4 in  $241_{\text{five}}$

b) Work out.  $2\ 3\ 1_{\text{five}}$   
 $+ 1\ 4\ 1_{\text{five}}$

c) Express  $2\ 4\ 1_{\text{five}}$  in decimal base.

27. The sum of the three consecutive numbers is 36. Find the largest number.

28. Use the drawn number line below to answer questions that follow.



a) Give the value of;

$a = \dots\dots\dots$

$b = \dots\dots\dots$

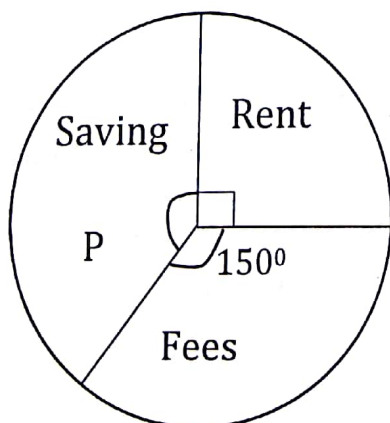
$c = \dots\dots\dots$

b) Write the mathematical statement represented by the above arrows.

29. Trevor went to the market and bought the following items.
- 2kg of sugar at sh 2800 per kg
  - A loaf of bread at sh 3500
  - $1\frac{1}{2}$  litres of milk at 2000 per litre
  - 500g of salt at sh 1500 per kg
- a) Work out the total expenditure.

- b) If he had a 20,000 shillings note. What was his change?

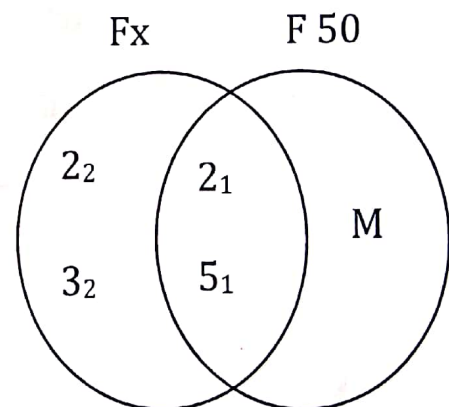
30. The pie chart below shows how Ouma spends his monthly salary of sh 360,000.



- a) Find the value of P.

- b) How much more money does the family spend on fees than rent?

31. Below is a factor set, use it to answer questions about it.



- a) Find the value of X

b) Find the value of M.

c) Workout the L.C.M of X and 50

32. Using a ruler, a pencil and a pair of compasses only, construct an equilateral triangle in a circle of radius 3.5cm.