NAMAGUNGA PRIMARY BOARDING SCHOOL

P.7 ENTRY EXAMINATIONS TERM II - 2022

MATHEMATICS (SET II)

PRIMARY SIX

Time allowed: ***2 Hours 30 Minutes***

Name:…… Stream :……

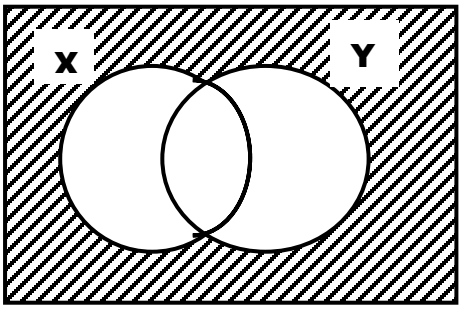
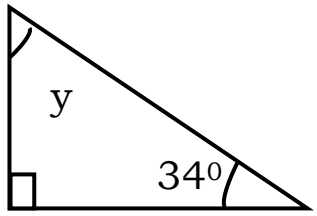
Read ***the following instructions carefully:***

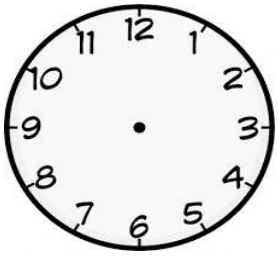
1. This paper has **two** Sections: **A** and **B**.
2. Section **A**, has **20** short answer questions (40 marks)
3. Section **B** has **12** questions (60 marks).
4. Answer **ALL** questions. All answers to both Sections **A** and **B** must be written in spaces provided.
5. All answers must be written using a blue or black ballpoint pen or ink. Diagrams should be drawn in pencil.
6. Unnecessary alteration of work will 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 box indicated for examiner's use only.

FOR EXAMINERS' USE ONLY		
QN. NO	**MARK**	**SIGN**
1-5		
6-10		
11-15		
16-20		
21-22		
23-24		
25-26		
27-28		
29-30		
31-32		
TOTAL		

A	
B	
TOTAL	

SECTION A

1.	Workout: 3 6 x 2 _____ _____	2.	Write 99 in Roman numerals.
3.	Describe the shaded region on the venn diagram below. ε  	4.	Find the sum of the next two numbers in the sequence. 2, 3, 5, 7, _____, _____
5.	Find the value of y in the figure below.  	6.	Workout: $1\frac{2}{3} - \frac{3}{4}$

7.	Simplify: $3y + 5x - 2y - 3x$	8.	The cost of 5 pens is shs. 2000. Find the cost of 3 similar pens at the same rate.
9.	Draw tallies to represent 23.	10.	Show a quarter to 11 oclock on the clock face below. 
11.	Change 5000g to kg.	12.	Find the range of 5 and – 4

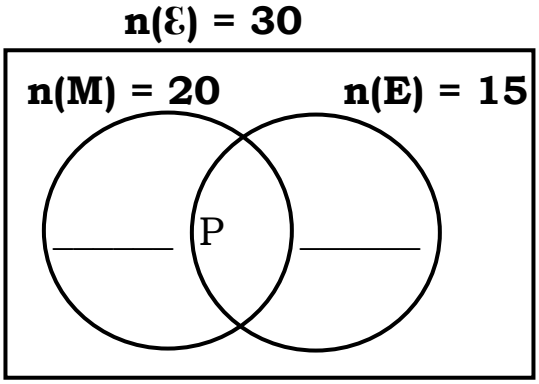
13.	Solve for k. $4k + 4 = 20$	14.	Set Y = {c, a, t} how many subsets has set Y.
15.	Given that  represents 5 trees. Draw pictures to represent 45 trees.	16.	Expand 256.8 using exponents.
17.	Find the least number of sweets that can be shared by 8 girls or 6 boys without leaving a remainder.	18.	Shade $\frac{2}{3}$ of the figure below. 

19.	Convert 42_{ten} to base five.	20.	Work out: 2 - 3 = _____(finite 5)

SECTION B

21. **In the class of 30 pupils, 20 pupils like Maths (M) 15 pupils like English (E) and P pupils like both subjects.**

(a) Complete the venn diagram below.



(b) How many pupils like both subjects?

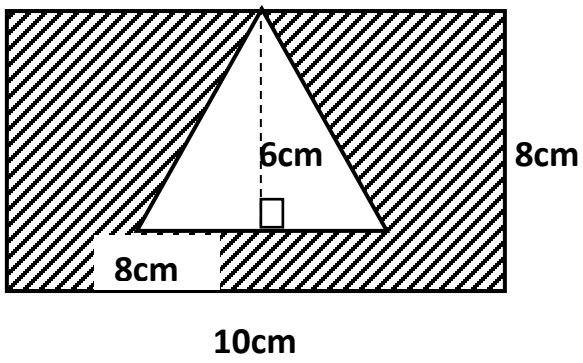
(c) How many pupils like English only?

22. **Musa was given cards numbered 4, 0, 7, 6 to use them and form four-digit numerals.**

(a) Write down the smallest four-digit numeral she formed.

(b) Write down the largest four-digit numeral she formed.

23. **Study the figure below and use it to answer the questions that follow.**



(a) Find the area of the outer figure.

(b) Find the area of the inner figure.

(c) Calculate the area of the shaded region

24. **Work out the following.**

(a) $2\ 1\ 4_{\text{five}}$ + $1\ 3\ 1_{\text{five}}$

(b) $4\ 3\ 2_{\text{five}}$ − $1\ 0\ 3_{\text{five}}$

(d) Change 231_{five} to base ten

25. **Work out the following.**

(a)

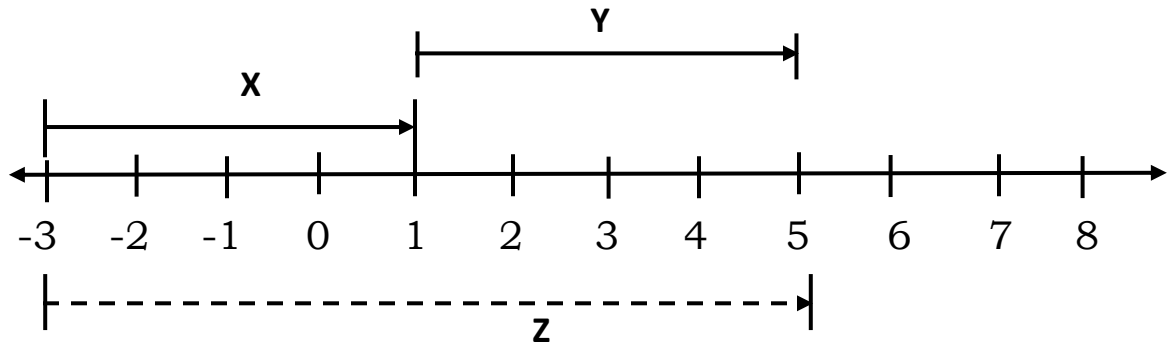
Hrs	Min
2	25
+ 4	35

(b)

Wks	Days
8	4
+ 2	6

(d) A driver covered a distance of 180km at a speed of 60km/hr. How long did the driver take to cover the journey?

26. **Study the number line below and use it to answer the questions that follow.**



(a) Find the value of;

(i) X (ii) Y (iii) Z

(b) Write a mathematical sentence for the expression above.

27. **Deo went shopping and bought the following items;**

3kg meat at sh.10000 per kg

$2\frac{1}{2}$kg of rice at sh.3000 per kg

2kg of sugar at sh.8000

500g of tea leaves at sh.4000 per kg

(a) Calculate his expenditure.

(b) If he went with sh.60,000, how much was his change?

28. **Joan scored the following marks in a series of Mathematics test.**

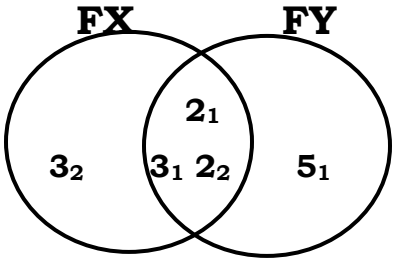
40, 80, 60, 90 and 80

(a) Find his median score.

(b) Find his range.

(c) Calculate his average.

29. **(a) Study the venn diagram below and use it to answer the questions that follow.**



Find the value of;

(i) X (ii) Y

(b) The LCM and the GCF of X and Y are 24 and 4 respectively. Find x if y is 8.

30. Using a ruler, a well sharpened pencil and a pair of compasses, only construct a hexagon in a circle of radius 3cm.

31. Given that; a = 3, b = 4 and c=6

(a) Find the value of;

(i) abc (ii) $\frac{bc}{a}$

(iii) ab – c

32. **The picto graph below shows the number of eggs collected on Kapere's farm in a week.**

Sun	
Mon	
Tue	
Wed	
Thur	
Fri	
Sat	

Scale  **represents 20 eggs**

(a) On which day was the highest number of eggs collected?

(b) How many eggs were collected in the first four days of the week?

(c) If there are 30 eggs on each tray of eggs, how many trays were collected on Sunday and Monday?

END