NAMAGUNGA PRIMARY BOARDING SCHOOL

COVID - 19 HOLIDAY EXAMINATION

PRIMARY SIX - MATHEMATICS

Extra set III - 2020

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** 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 EXAMINERS' USE ONLY		
Qn. No.	**MARKS**	**EXR'S NO.**
1 – 5		
6 – 10		
11 – 15		
16 – 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 -30		
31 - 32		
TOTAL		

SECTION: A

1. Workout: 103 – 87

2. Write XCIV in Hindu Arabic numerals.

3. Find the sum of the next two numbers in the sequence below.

28, 21, 15, 10, 6, _____, _____

4. The average age of five girls is 12 years. If their teacher joins the group, their average age becomes 15 years. Find how old is the teacher?

5. $(3y + 11^0)$ and 19^0 are supplementary angles. Find the value of y.

6. Find the product of;

   (102×10^{-2})

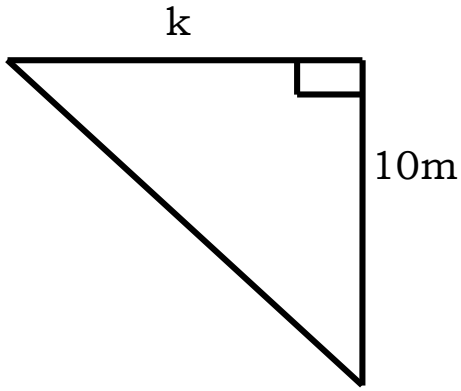
7. Solve: $19 - 2m = 11$

8. Express 124_{five} to base four

9. Share sh.72,000 in the ratio of 5:4

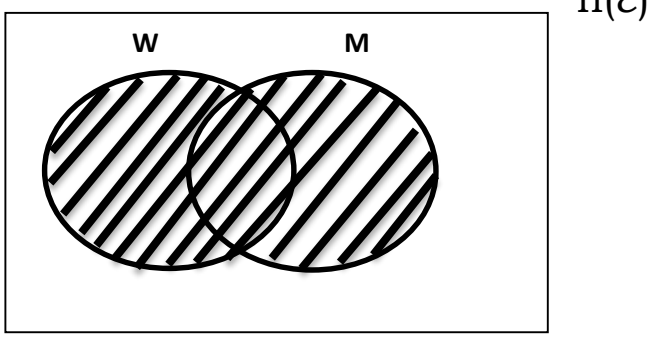
10. Find the angle represented by 15 minutes using a clock face.

11. The area of the figure below is $45m^2$, find the length of its base;



12. If the chance of getting back to school this year is $\frac{6}{7}$, what is the probability of the government declaring 2020 a dead year?

13. Describe the unshaded region on the Venn diagram below.



14. Using a pair of compass, a ruler and a sharp pencil only, construct an angle of 135^0

15. Vean reversed her car 20 metres and then moved 10 metres in front. How far did she move?

16. Kanyankole drove from Mbale to Soroti covering a distance of 120 km in 2 hours and 30 minutes, how fast was his journey?

17. Simplify: $\frac{3}{7}+1\frac{1}{5}$

18. The cost of one and half a dozen of books is sh. 18,000. What is the cost of 29 similar books?

19. Express 64 in the powers of 4.

20. Round off 69.54 to the nearest whole number

SECTION: B (60 MARKS)

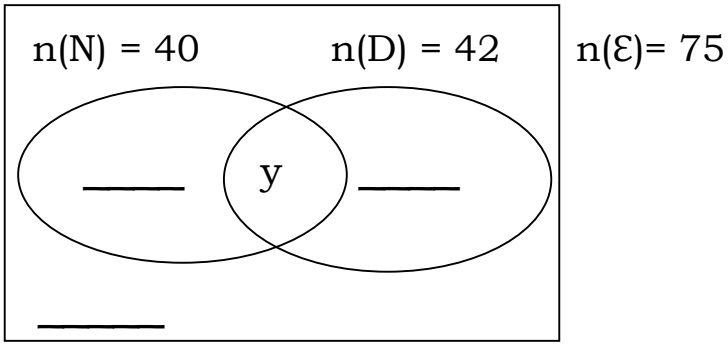
21. At the Parliament of the Republic of Uganda, two bells are rung at intervals of 40 minutes and 60 minutes for the front and back benchers respectively.

(a) After how many hours will the two bells ring together? (3marks)

(b) If the two bells are last rung together at 10:00 a.m.
At what time will the two bells next be rung together again? (2marks)

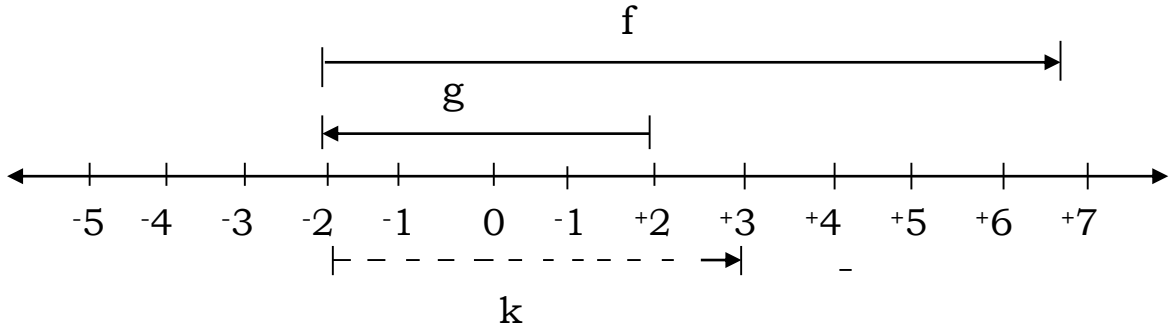
22. In a class of 75 pupils, there are 40 pupils who like Novels (N), 42 like reading Dictionaries (D), y like reading both types of books and 5 don't like any of the two books

(a) Use the information above to compete the Venn diagram below. (3 marks)



(b) What is the probability of picking a pupil who reads both books? (3 marks)

23. Study the number line below and use it to answer the questions that follow;



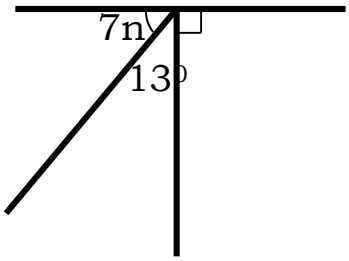
(i) Identify the integers marked with letters. (1mark @)

f= _____ g = _____ k = _____

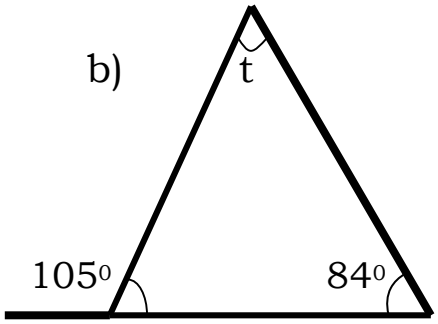
(ii) Write down the mathematical sentence shown on the number line. (2 marks)

24. Find the value of the angles marked with letters. (2 marks @)

a)



b)



25. Jabelly went to the supermarket with four notes of sh. 5000 and bought the following items.

2kg of sugar at sh. 4000 a kilo

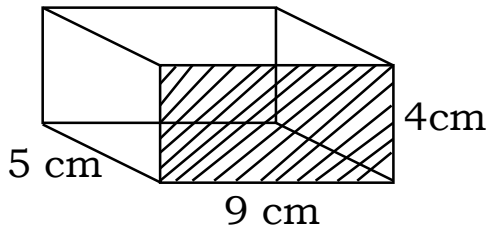
$2\frac{1}{2}$ litres of cooking oil at sh. 5000

2 tins of strawberries at sh.5000 for five tins

(a) Calculate his total expenditure. (3 marks)

(b) Find how much his change was. (2 marks)

26. The solid figure below is a cuboid. Study it and answer the questions below.



(a) Find the number of edges

_____ (1 mark)

(b) Find the square root of the area of the shaded face. (2 marks)

(c) Calculate the volume of the figure above. (2 marks)

(c) Find the perimeter of the shaded part. (1 mark)

27. (a) Given that $a = -2,\ p = 10$. Find $3a^2 + 3p$ (2 marks)

(b) Workout $4 - 6 = x\ (Finite\ 5)$ (1 mark)

(c) Given that a = b = 8 and c = 12. (2 marks)
Find the value of ac — b.

28. Using a pair of compasses, a sharp pencil only, construct a triangle KAP where line KA = AP = 6cm, angle PAK = 90^{0}.
(4 marks)

(b). Find the number of lines of folding symmetry in the triangle KAP constructed.

(1 mark)

29. Akena is thrice as old as his daughter. The difference in their age is 24 years.

(a) How old is the daughter? (2 marks)

(b) What is their total age? (1mark)

(c) Solve: $1\frac{1}{2}w - 6 = 9$ (2 marks)

30. Given the number 967**.**42,

(a) Find the value of **4** in the number? (1 mark)

(b) Express the number in expanded form using exponents of 10.

(2 marks)

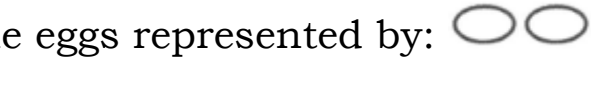
(c) Write the number in words. (2 marks)

31. The table below shows the marks score in week1 test before covid–19 break by P.6 pupils at Victoria Junior primary school

Marks	70	85	90	50
No of pupils	3	2	1	4

(a) Find the median mark. (1 mark)

(b) Calculate the average score. (2 marks)

(c) Given that  represents 15 eggs and a tray carries 30 eggs, find the number of trays obtained from the eggs represented by: 
(2 marks)

32 (a) Express 200grams as a percentage of 4kg. (2 marks)

(b) Simplify: $\frac{0.6 \times 0.9}{0.18}$ (2 marks)

STAY HOME AND STAY SAFE