HILLSIDE PRIMARY SCHOOL
PRE-PRIMARY LEAVING EXAMINATIONS
2023
MATHEMATICS (SET ONE)
Time Allowed: **2 Hours 30 Minutes**

Index No.	Random No.					Personal No.		

Candidate's Name...…................

Candidate's Signature...Stream..............

EMIS No..

District Name...

Read the following instructions carefully:

1. The paper has **two** sections: **A** and **B**. Section A has 20 questions and Section B has 12 questions

2. Answer **all** questions. All answers to both sections **A** and **B** must be written in the spaces provided.

3. **All** working must be done using a blue or black ball-point pen or fountain pen. Any work written in pencil other than graphs and diagrams will not be marked

4. No calculators are allowed in the examination room.

5. Unnecessary changes in work may lead to loss of marks. Any handwriting that cannot easily be read may lead to loss of marks.

6. Do not fill anything in boxes indicated: **"For Examiners' Use Only"** and those inside the paper.

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

1   **Turn Over**

SECTION A: (40 marks)

1. Subtract: 9 2 4 – 2 2

2. Write 3094 in words.

   ....

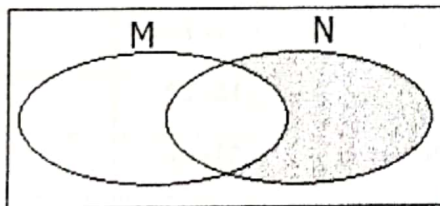   ....

3. Write XCIV in Hindu –Arabic numerals.

4. Describe the shaded region on the Venn diagram below.

5. Find the next number in sequence.
   1, 3, 6, 10, 15, ...

6. Simplify: 8t − 3t + 4t.

7. In the diagram below, draw a straight line through point K such that it is parallel to line MN

K.
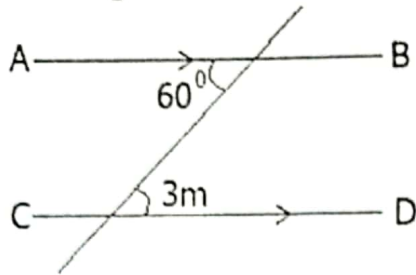
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8. Express 732 in scientific notation.

9. A bundle of bank notes worth sh.50,000 is numbered from XY00440 to XY last note. If each note is worth sh.1,000. What is the last note?

10. The cost of 4 books is 36,000. How much will 6 books of the same type cost?

11. A car travelling at a speed of 60km/hr took 3 hours to cover a certain distance. Calculate the distance covered.

12. Work out: $1011_{two} + 101_{two}$

13. In the figure below. AB is parallel to CD. Find the value of m

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A————→———————— B
       60°
         \
      \ 3m
C———————→———————— D
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14. Round off 2347 to the nearest hundreds.

15. Express 21 05hours to a 12 hour clock system.

16. Given that **seventy** poles are fixed in a straight line alongside a road at intervals of 10 metres. What length of the road was covered in metres?

17. Ronald deposited sh.500,000 in a bank that offers an interest rate of 20% per annum for 3 years. What interest did he get after 3 years?
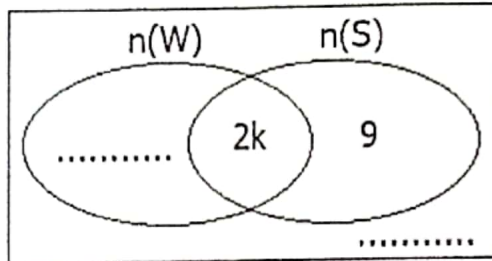
18. Find the circumference of a circle whose radius is 14cm.

19. Increase 4200kg in the ratio of 5:3

20. In a box of pens, 4 are red and 6 are blue, if a pupil is selected from the class to pick a pen at random, Find the probability that a pen picked is red.

SECTION B: (60 marks)

21. At a baby shower party, 7 people took water (W) only, some took soda (S) 2k took both drinks and k + 3 took other drinks.
    a) Complete the Venn diagram below.   (2 marks)

    b) If 29 people took soda, find the value of K.   (3 marks)

22. a) Simplify: $\dfrac{0.48 \times 0.6}{0.3 \times 1.2}$ (3 marks)

7

b) Work out: $\frac{5}{9} \div (\frac{1}{3} + \frac{1}{4})$ of $2\frac{1}{7}$ (2 marks)

23. Kennedy bought the following items from a shop.

   ➤ 2kg of rice at sh. 5,500 per kg
   ➤ 4 litres of milk at sh.1,100 per half litre
   ➤ 2 bars of soap at shs.6,000

   a) Calculate his total expenditure.   (4 marks)

   b) If he had sh.50,000, what was his change?   (1 mark)

24. A father is three times as old as his son. In 15 years, the father will be twice as old his son.
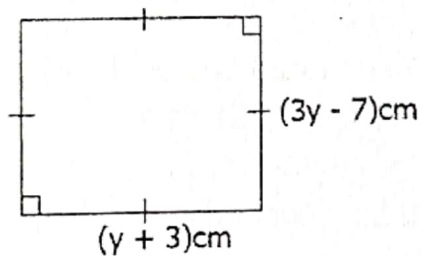
    a) How old is the father now?   (3 marks)

    b) Find the age of the son in 20 years' time   (2 marks)

25. The figure below is a square. Find its area.   (5 marks)

$(3y - 7)$cm

$(y + 3)$cm

26. The area of circular flower garden is 154cm². (3 marks)

    a) How long is its radius?

    b) If the garden is to be fenced with poles planted at intervals of 2m apart. How many poles are needed to fence the garden? (2 marks)

27. Workout: (2 marks each)

    a)

Hrs	Min
6	30
+ 3	17

    b)

Week	Days
5	3
- 3	5

28. a) Using a pair of compasses, a ruler and a pencil only, construct a
    triangle XYZ where line XY = 7cm YZ = ZX = 6cm.   (4 marks)

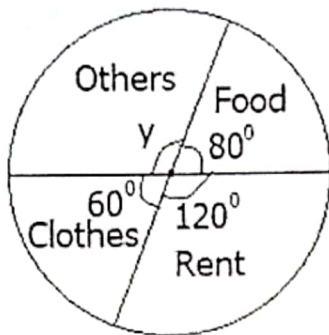   b) Drop a perpendicular from Z to meet line XY at P. (1 mark)

29. John, Jane and Asher shared money in the ratio 3:2:5 respectively. If
    Asher got sh.120,000 more that John;

    a) How much money did they share altogether?   (3 marks)

b) Find the amount of money Jane got. (2 marks)

30. The pie chart below shows how a woman spends her sh.360,000 over the weekend.
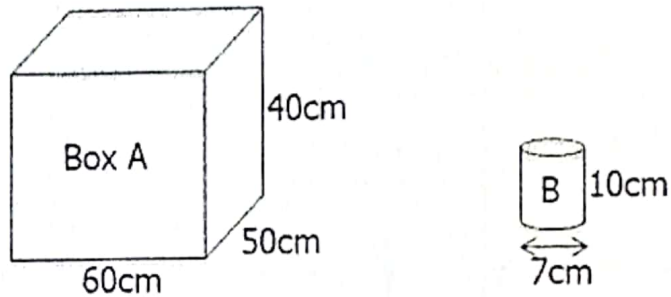

a) Find the value of y in degrees. (3 marks)

b) What fraction of her money is spent on rent? (1 mark)

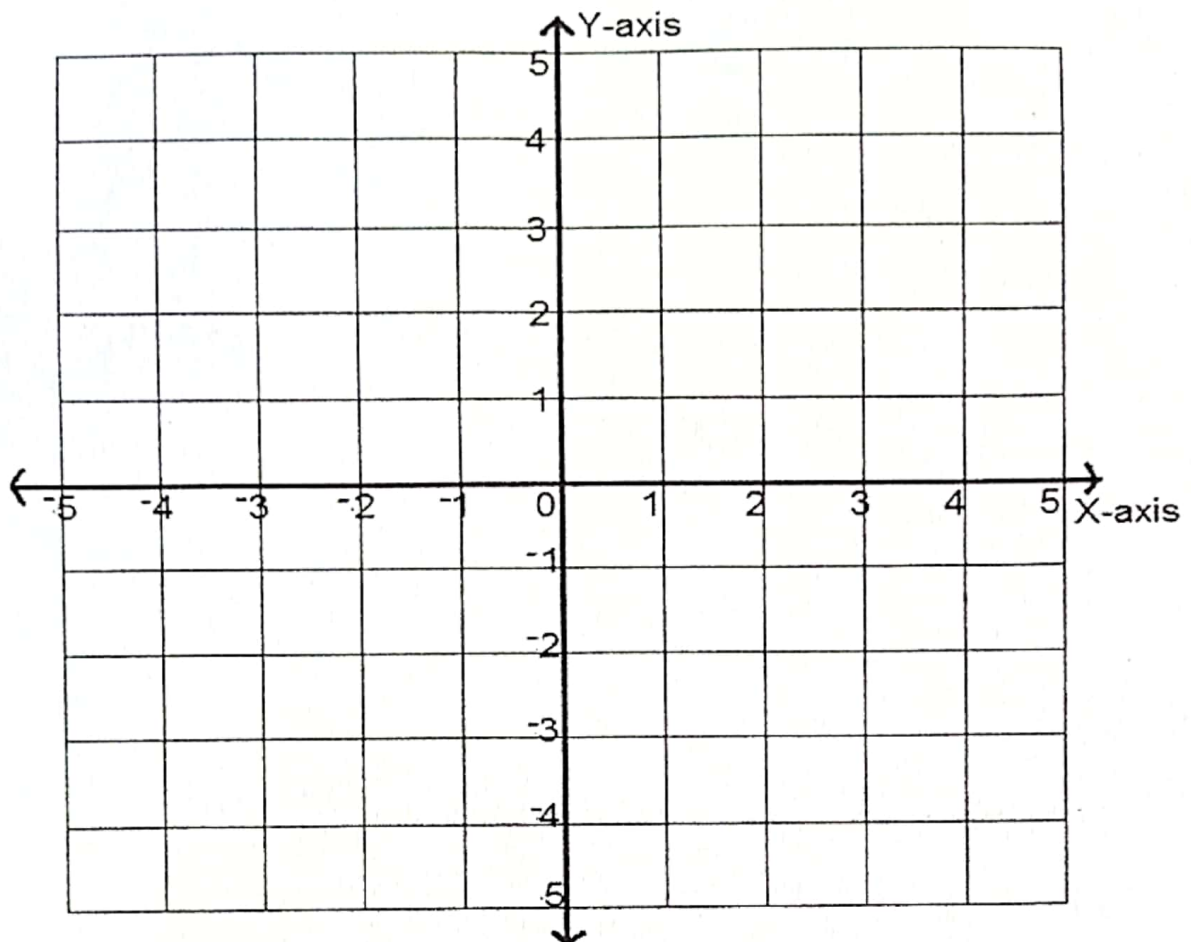31. Below is a rectangular box A and a cylindrical tin B.

a) How many tins can be packed in the first layer?   (3 marks)

b) How many layers will be formed if all tins are packed?
(1 mark)

c) Calculate the volume of the space left after packing all tins.
(2 marks)

32. a) Plot the following coordinates on the graph below.   (4 marks)
   A(-2, 5), B(5, 5), C(2, -4) and D(-5, -4)

b) Join A to B, B to C, C to D and D to A.   (1 mark)

c) Name the quadrilateral formed after joining the points.
                                                            (1 mark)

END