NEXT EXAMINATIONS BOARD

PRE-PLE SET 14 (COBRA)

2026

MATHEMATICS

Total Marks scored	

Time Allowed: 2 hours 30 minutes

Random No.						Personal No.		

Candidate's Name: .....

Candidate's Signature: .....

District ID No.

Read the following instructions carefully:

1. Do not write your **school** or **district name** anywhere on this paper.
2. This paper has two Sections: **A** and **B**. Section **A** has **20** questions and Section **B** has **12** questions. The paper has **13 printed** pages.
3. Answer **all** questions. **All** working for both Sections **A** and **B** must be shown in the spaces provided.
4. **All** working **must** be done using a **blue** or **black** ball point pen or ink. Any work done in pencil other than graphs and diagrams will **not** be marked.
5. No **Calculators** are allowed in the examination room.
6. Unnecessary **changes** in your work and handwriting that cannot be easily read may lead to **loss of marks**.
7. Do not fill anything in the table indicated **"FOR EXAMINERS' USE ONLY"** and in the boxes inside the question paper.

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: (40 marks)

1. Workout:
$$\begin{array}{r} 41 \\ \times\ 5 \\ \hline \\ \hline \end{array}$$

2. Find n(A), if A = {months of the year which begin with letter J}.

3. Subtract: $4\frac{3}{5} - 2\frac{1}{5}$

4. If  represents 12 pineapples, how many pineapples are represented by  ?

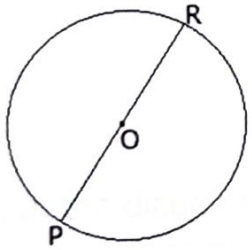
5. Workout the Least Common Multiple (LCM) of 8, 9 and 14.

6. Use a pair of compasses and a ruler only to construct an angle 120^0 in the space below.

7. Given that m = 0.5 and n = 6, find the value of mn + 4n

8. Find the average of; 8, 12, 4, 5 and 1.

9. A nursery school has a round play field shown below on which children do their physical studies. O is the center of the field and PR= 28metres.



If children run round the field twice, what distance do they cover?

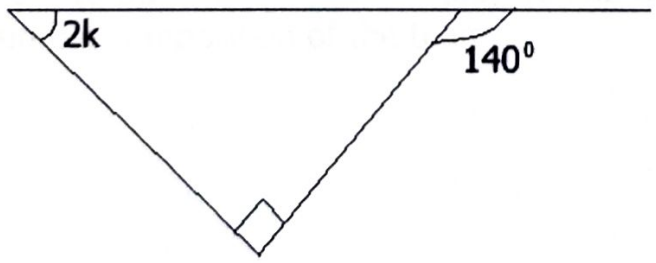
(Take $\pi=\frac{22}{7}$)

10. Kavuma bought five bottles of milk of size 250ml each. How many litres of milk did he buy?

11. Write 4,306 in words.

12. A family invited 15 guests for a birthday party. Each of the invited guests was given a bottle of soda of sh.1000 and a doughnut of sh.500. Find the total amount of money spent on the invited guests.

13. In the diagram below, find the value of k.



14. A hawker bought a pair of Croc shoes at sh.4000 and later sold them at sh.4500. Express his profit in terms of percentage.

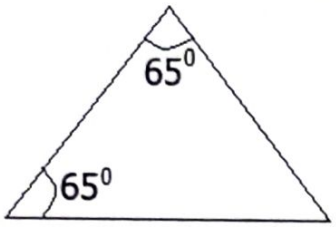
15. Simplify: $6b - 4c + 5c - 5b$.

16. Omara withdrew some money from the bank and he was given five thousand shilling notes numbered consecutively from AP534201 to AP534300. Find the amount of money withdrawn by Omara.

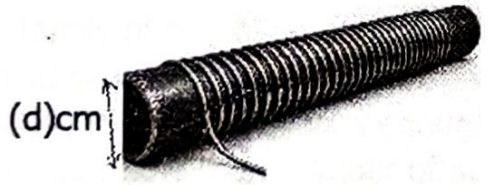
17. A taxi carries 14 passengers while a coaster carries 29 passengers. A national boxing team needed the two vehicles for two journeys each in order to transport the team's players and officials. Calculate the total number composition of the team.

18. The cost of 5 counter books is sh.30,000. Find the cost of four similar counter books at the same rate.

19. Show all the lines of folding symmetry in the figure below.



20. Odur had a wire of length 43.56 metre. He wound round a metallic pipe 22 times as illustrated below. Calculate the its diameter.



SECTION B: (60 marks)

21. In a school, the bells for primary section and nursery section ring at intervals of 50 minutes and 30 minutes respectively. The bells are rung for the first time at 7:30 a.m.

    a) At what time will the two bells be rung together for the second time? (04 Marks)

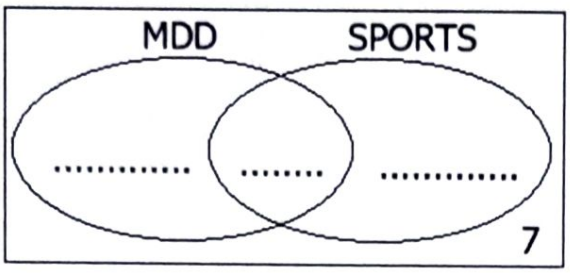
    b) How many times does the bell for nursery section ring before they ring together? (02 Marks)

22. A family of six children and some adults went for a family tour. Each child paid sh.25,000 for transport while sh.35,000 was paid per adult. If Sh.290,000 was enough to meet their transport cost. Calculate the total number of adults who went for the family tour. (04 Marks)

23. A class has 24 boys. 10 boys participate in Music, Dance and Drama (MDD), and 12 participate in sports (S), e boys take part in both activities while 7 boys neither participate in MDD nor sports.

a) Complete the Venn diagram below with the above information.

$n(\varepsilon) = 24$ (03 Marks)



b) Find the number of boys who do not participate in sports.

(03 Marks)

24. a) Workout: $3\ 1\ 2_{five}$ (02 Marks)

$-\ 1\ 2\ 3_{five}$

b) Given that: $14_{ten} = 32_{m}$, find the value of m (03 Marks)

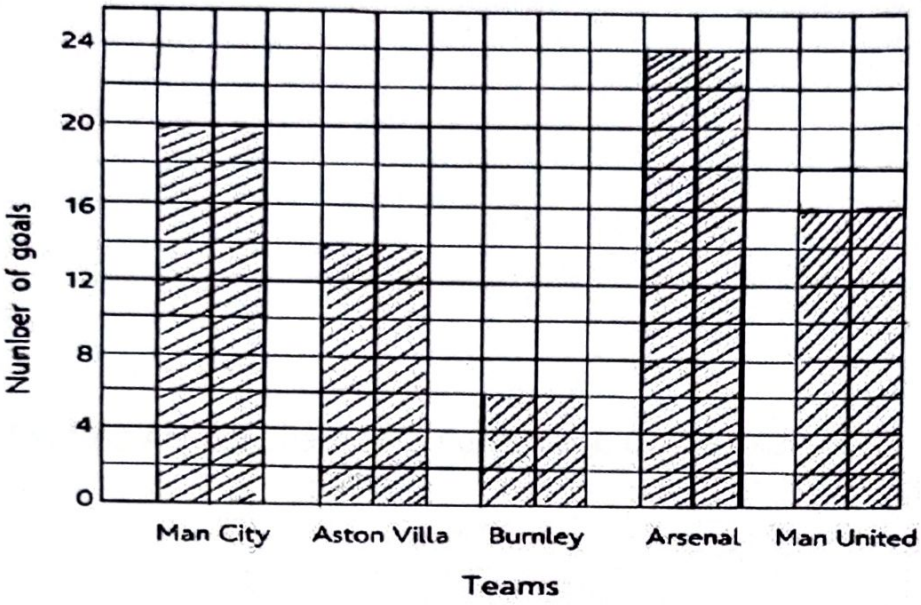
25. a) Using a ruler and a pair of compasses only, construct a triangle ABC in which length AB = 6.5cm, angle ABC = 60^0 and angle BAC = 45^o.

(04 Marks)

b) Measure the size of angle ACB. (01 Mark)

26. Workout: $\frac{5.72-2.12}{0.3\ x\ 0.12}$ (04 Marks)

27. The bar graph below shows the number of goals scored by five English Premier League teams. Study it carefully and answer the questions that follow.



a) Name the team that scored fewest number of goals (01 Mark)

b) How many goals did Aston villa score? (01 Mark)

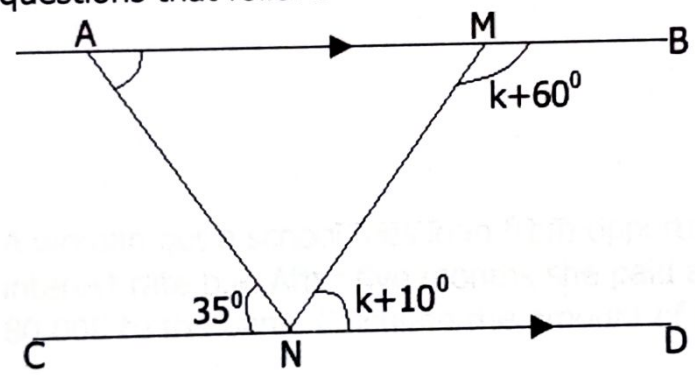
c) Calculate the average number of goals scored by all the teams.
(03 Marks)

28. Three girls, Kisakye, Angel and Gift shared sweets in the ratio 6:5:9 respectively. Kisakye got 18 sweets.

a) How many sweets did the girls share altogether? (04 Marks)

b) Express Angel's share as a percentage of the total share. (03 Marks)

29. In the diagram below, line AB is parallel to line CD. AMN is a triangle, angle BMN = $k+60^0$ and angle DNM = $k+10^0$. Use it to answer the questions that follow.



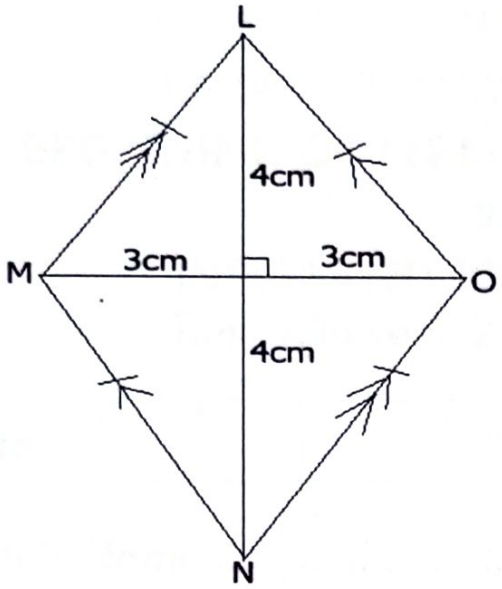
a) Find the value of k. (03 Marks)

b) Find the size of angle ANM. (02 Marks)

30. A milk salesman collected milk from a farm in a cylindrical milk can of diameter 14cm and height 100cm. He later sold the milk at Sh.2000 per litre. Calculate the total amount of money collected from the whole milk can. (Use $\pi = \frac{22}{7}$) (06 Marks)

31. A woman got a school fees loan from opportunity bank at a 20% interest rate p.a. After five months she paid an interest of sh. 80,000 to the bank. Calculate the amount of the loan. (04 Marks)

32. In the figure below LMNO is a rhombus. Diagonals LN and MO intersect at right angles. LN = 8cm and MO = 6cm. Study it carefully and use it to answer the questions that follow.

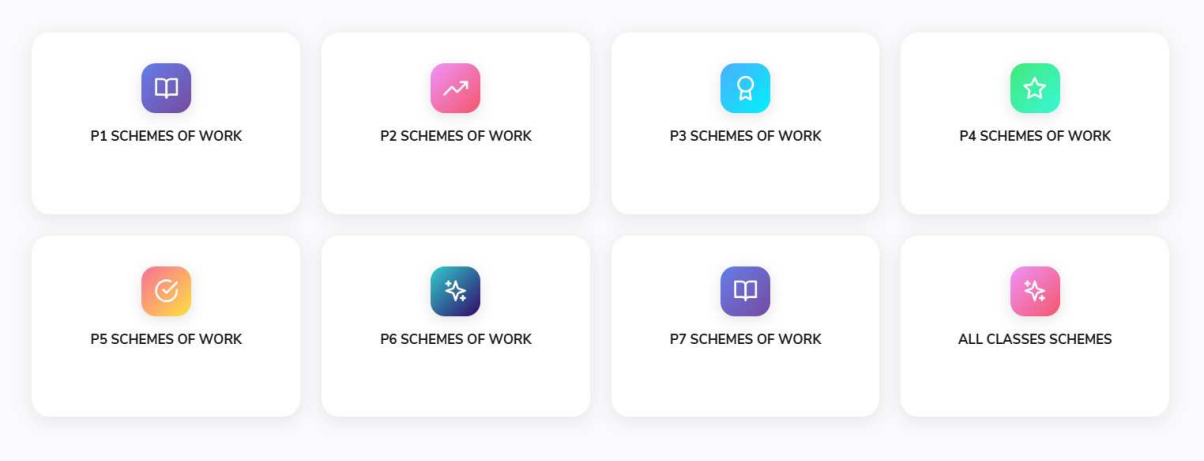


a) Find the area of the figure (02 Marks)

b) Workout the length MN. (02 Marks)

END

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