NEXT EXAMINATIONS BOARD

PRE-PLE SET 6 (FALCON)

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 **15 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. Work out: $36 \div 9$

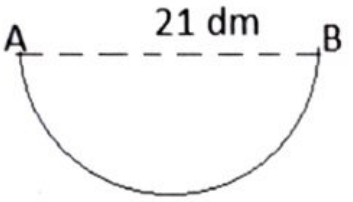
2. Find the number whose scientific notation is 4.75×10^{-2}

3. Given that set P = {Composite numbers less than 10}. Find the number of proper subsets of set P.

4. The average mass of a certain number of pupils in a group is 48kg. How many pupils were in the group if their total mass is 336kg?

5. Find the highest number of girls that can share either 30 or 48 sweets without leaving any remainder.

6. Find the length of the arc AB in the figure below



7. Simplify: $5k - 4k^3 + 4k - 3k^3$

8. Express $16\frac{2}{3}\%$ as a simplified ratio

9. Work out: 4 – 9 = ... (finite 8)

10. Using a pair of compasses, a pencil and a ruler, construct an angle of 90^0 at point M without extending the line

M

11. Round off 37.97 to the nearest tenths.

12. Solve for m in $4m^2 = 144$

13. Express 8.27 Hm as centimetres

14. How many minutes will Mukisa need to cover 90km at a speed of 75km/hr?

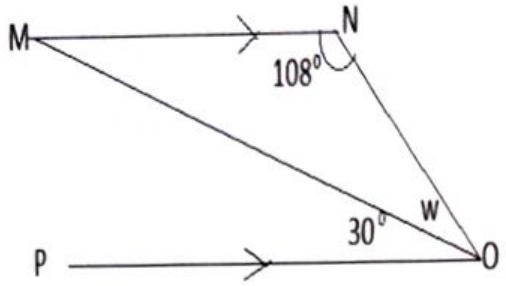
15. After selling a pair of shoes for sh.47,000, a trader made a $17\frac{1}{2}$ % profit. Find the buying price of the pair of shoes.

16. Change 97_{ten} to base five.

17. Find the next two numbers in the sequence below

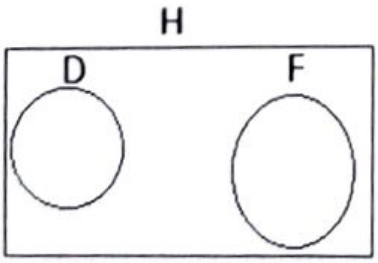
-13, -10, -7, -4, ..., ...

18. In the figure below, line MN and OP are parallel. Use it to find the value of w



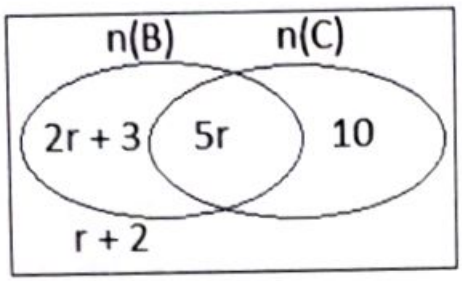
19. Simplify: $\frac{7}{9} \div 3\frac{1}{2}$

20. How are sets D and F related to set H?



SECTION B: (60 marks)

21. A certain group of tourists had their breakfast at Karuma. They were served accompaniments as roasted cassava (C) and bread (B) as shown on the Venn diagram below



a) If 23 tourists ate only one kind of accompaniment, find the value of r
(2 marks)

b) Find the probability of selecting a tourist who had bread for breakfast
(2 marks)

22. A doctor instructed a patient to take her medicine(tablets) as two tablets after every eight hours for five days

a) Write each days dose in digital form **(1 mark)**

b) If a patient was charged sh. 10,000 for consultation, sh. 3000 for laboratory tests and sh. 1400 per tablet. Calculate her total bill **(3 marks)**

23. a) Solve and find the solution set for; $-4 \leq 2p < 8$ **(2 marks)**

b) Pedro is 9 years old and Gene is 15 years old. How many years ago was Gene twice as old as Pedro? **(3 marks)**

24. In an interview of 20 questions, 5 marks were awarded for every correct answer and 2 marks were deducted for every wrong answer given.

a) If one of the interviewees passed 13 questions and failed the rest, find his score **(2 marks)**

b) Amina, one of the interviewees scored 72 marks, how many questions did he fail? **(3 marks)**

25. The table below shows the rates at which Muna forex bureau buys and sells some foreign currencies. Use it to answer questions that follow.

Currency	Buying rate	Selling rate
1 USA Dollar	Ug sh. 3600	Ug sh.3650
1 Kenya shilling	Ug sh. 30	Ug sh. 32

a) If Wandera had Ksh. 54,750 and used the whole amount to buy an air ticket to USA, what is the cost of the ticket in US dollars? **(3 marks)**

b) An orphanage was offered US dollars 4000 and Ksh. 13,000. How much money in Uganda shillings did the orphanage receive altogether? **(3 marks)**

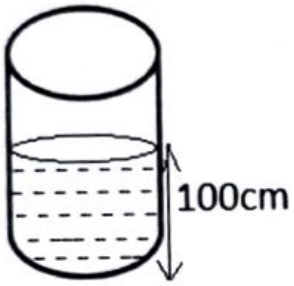
26. Nangabo subcounty has 12,000 people, of whom $\frac{2}{5}$ are males and the rest are females. 0.4 of the males and $12\frac{1}{2}$ % of the females are children, how many children are in that subcounty? **(5 marks)**

27. a) Find the value of m in the figure below. **(2 marks)**



b) Find the supplement of $(k + 36^0)$ **(2 marks)**

28. The cylindrical container below is currently containing 1540 litres of water. Use it to answer the questions that follow



a) Calculate the radius of the container(take $\pi = \frac{22}{7}$) **(2 marks)**

b) If the container is $\frac{4}{5}$ full, find its capacity. **(3 marks)**

29. A motorist left Jinja for Kampala at 7:30am. Driving at a steady speed of 60km/hr for $1\frac{1}{2}$ hours. He rested for 30 minutes and then resumed his journey to his destination, 120km away at a steady speed of 40km/hr

a) At what time did he reach his destination? **(3 marks)**

b) Work out the motorist's average speed for the whole journey. **(2 marks)**

30. a) Simplify: $1\frac{3}{7} + 7\frac{2}{3} \div 3\frac{5}{6}$ **(3 marks)**

b) Work out: $\frac{16.2 - 9.95}{1.25 \; x \; 0.05}$ **(3 marks)**

31. Tom bought 30 mangoes at sh. 300 each but x mangoes got spoilt. He sold the rest at sh. 500 each and made a profit of sh. 4000

a) Calculate the cost price of all the 30 mangoes. **(2 marks)**

b) How many mangoes got spoilt? **(3 marks)**

32. Jojo walked 60km from town A at a bearing of 150^0. Before reaching his destination, she changed his direction and walked 85 km at a bearing of 225^0 to town B

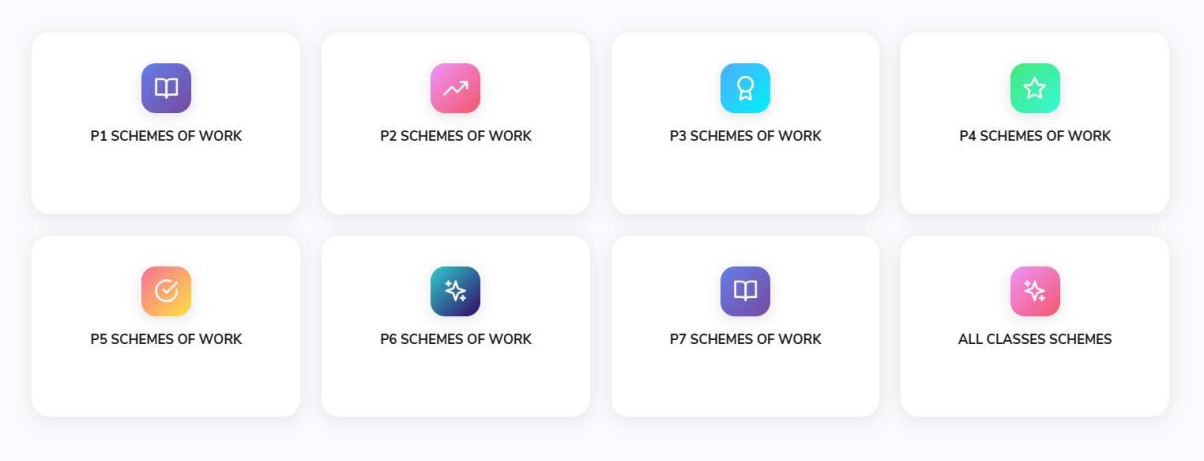
a) Draw a sketch diagram of Jojo's movement **(1 mark)**

b) Using a scale of 1cm to represent 10 km, draw an accurate diagram showing his movement **(4 marks)**

c) If she returned directly from B to town A, find the shortest distance between the two towns. **(1 mark)**

END

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