NEXT EXAMINATIONS BOARD

PRE-PLE SET 7 (PANTHER)

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 **14 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)

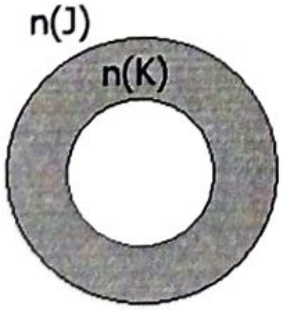
1. Reduce $\frac{5}{10}$ to its simplest form.

2. Write "***one thousand one***" in figures.

3. Find the number expanded to give: 5 tens + 5 tenths

4. Solve for m: 4m = 5 (finite 7)

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



6. Given that b = 2, a = 3 and c = 4, find the value of $b \div a + 1 \div c$

7. On a certain rainy day, a flight which was meant to be at 25minutes to 4:00 p.m. was delayed by 15 minutes. Find the time the flight took place.

8. Without dividing, show that 13574 is exactly divisible by 11.

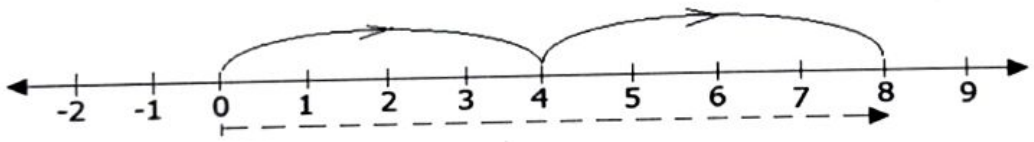
9. What percentage of $2\frac{1}{2}$ hours is 30 minutes?

10. Expand 34.72 using exponents.

11. Simplify: $5 \div (0.05)^2$

12. Two numbers, ***m*** and ***n*** are in the ratio of 3:5. If their lowest common multiple is 60, find the values of ***m*** and ***n***.

13. Write the mathematical sentence represented by the number line below.



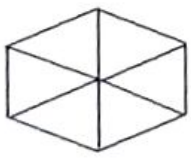
14. Opondo bought a pair of shoes at sh. 50,000. At what price must he sell it in order to make a profit of $12\frac{1}{2}\%$?

15. Complete correctly using either **>**, **<** or **=**

5 kg of sand ..... 5 kg of cotton wool

16. A retailer bought a 50 kg bag of rice at sh.125,000 and packed them into smaller $\frac{1}{2}$ kg packets. If he sold each packet at sh.1800, how much profit did he make in total?

17. Shade $\frac{2}{3}$ of the diagram below



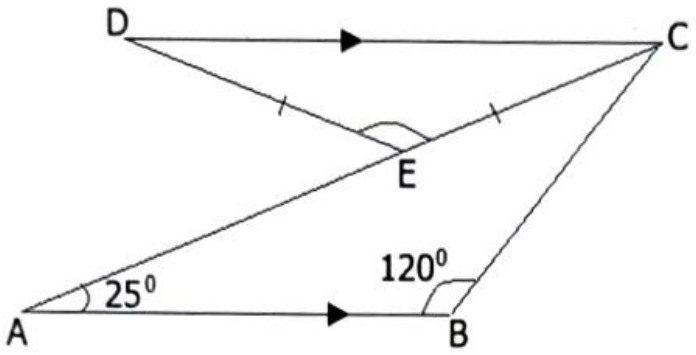
18. A school bursar had coins of sh.500 each and sh.200 each respectively. If she had a total of 20 coins amounting to sh. 6400, how many coins of sh.200 did she have?

19. Mubiru was standing facing in the North-East direction. If he turned anti-clockwise through an angle of 225^0, what is his new direction?

20. In Owino market, the cost of a mango was twice that of an orange. After increasing the price of each item by sh.500, the total cost of the two items became sh. 4000. Find the cost of a mango before the price increase.

SECTION B: (60 Marks)

21. In the figure below, line AB is parallel to line DC and line CE=line DE. Angle ABC = 120^0. Study it and use it to answer the questions below.



a) Find the size of; i) BCD

ii) AED

b) Name a regular polygon with 5 triangles

22. a) Solve for a in: $a^2 + a^2 = 1003_{five.}$

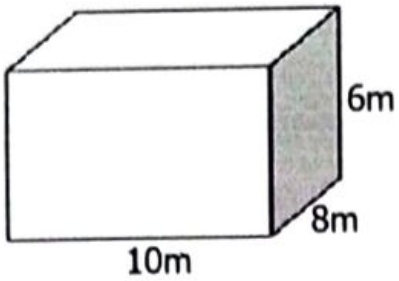
b) Find the value of 3 in 234_{six}

23. In a village, $\frac{2}{3}$ of the male farmers are grow maize while $\frac{1}{4}$ of the females grow cassava. The percentage of male farmers in the village is 60%. The village has 120 farmers growing maize.

a) How many farmers are in that village? (3 marks)

b) How many farmers grow cassava? (2 marks)

24. The diagram below shows a rectangular tank measuring 10 metres long, 8 metres wide and 6metres high. Use it to answer the questions that follow.



a) Calculate the total surface area of the rectangular tank. (2 marks)

b) Calculate its capacity. (3 marks)

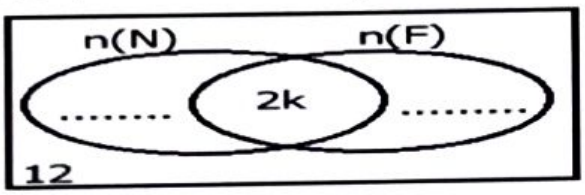
25. Grace was standing near the 12th pole from either side of the line.

a) Find how many poles were in the line. (2 marks)

b) If she bought each at pole at sh. 2,000, calculate the total amount spent on all poles. (2 marks)

26. During the sports day competitions, in a certain house, 24 pupils participated in football (F), 16 pupils participated in netball (N), 2k played both football and netball while 12 pupils participated in other activities.

a) Complete the Venn diagram below. (2 marks)



b) If those who played netball only are half of those who played football only, find the value of k. (2 marks)

c) Calculate the total number of participants in that house many participants were in that house. (1 mark)

27. Ethan bought 20 tomatoes from a market each at sh.300. some of the tomatoes went bad and he sold the remaining tomatoes each at sh. 600 making a profit of 20%.

a) At what price did he sell all the tomatoes? (3 marks)

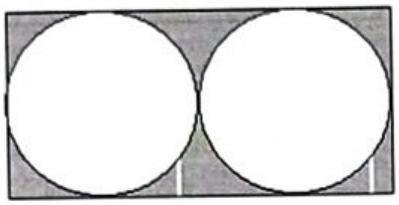
b) Find the number of tomatoes that got spoilt. (2 marks)

28. The interior and exterior angles of a regular polygon are the ratio of 3:2 respectively.

a) Find the size of each angle

b) Work out its interior angle sum.

29. Study the diagram below and use it to answer the questions that follow.



Given that the two circles have a total area of 308 cm^2, calculate the area of the shaded part.

30. a) If water in a 20 litre jerrycan leaks at a rate of half a litre every 30 minutes, how much water will be in the jerrycan after two and a half hours? (3 marks)

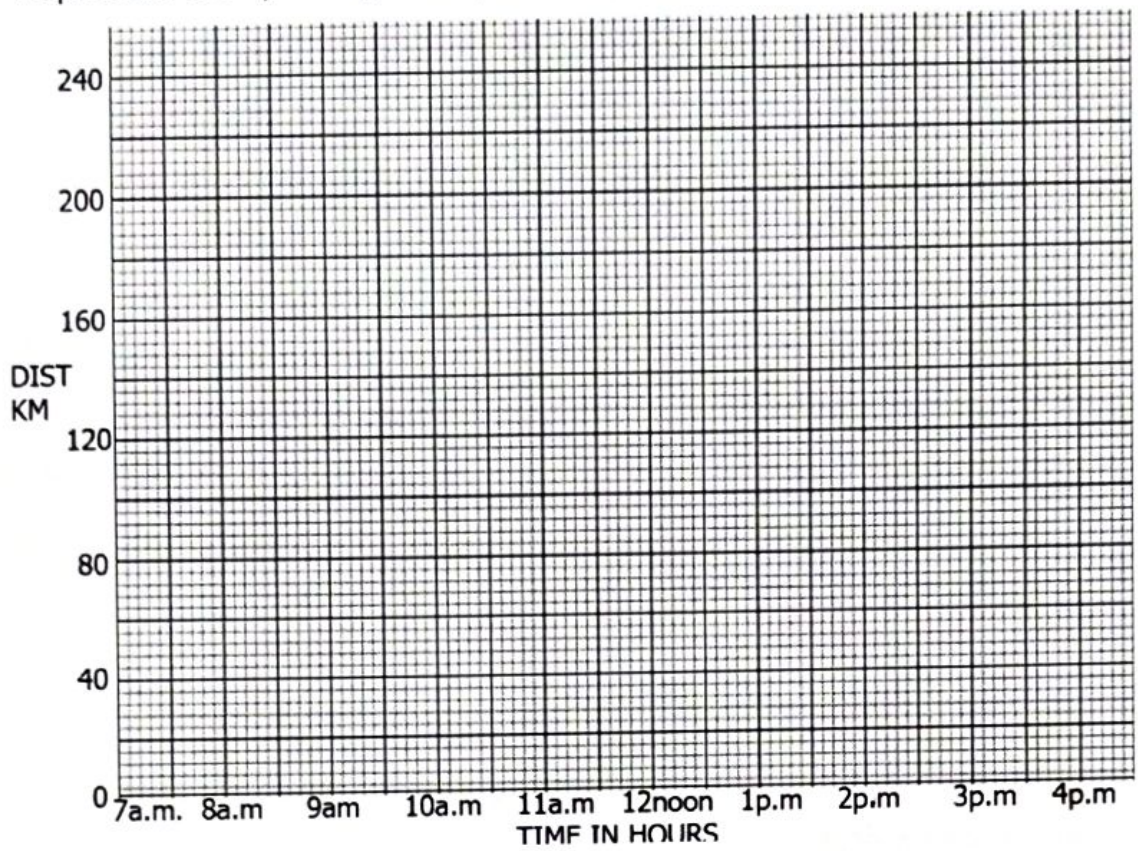
b) Kasiru can sweep the classroom in 3 minutes while Kairu can sweep the same classroom in 6 minutes. If both work together to sweep the same classroom, how long shall it take them to complete the sweeping of the classroom? (2 marks)

31. a) Using a ruler, a pencil and a pair of compasses, construct a rhombus ABCD, where diagonal BD = 6cm and diagonal AC = 8cm. (3 marks)

b) Calculate its area. (1 mark)

32. A cyclist left town P at 7:30a.m. moving at a steady speed of 40 km/hr for 2 hours Q. He rested for 30 minutes at Q and then continued to town R at a speed of 48 km/hr for $2\frac{1}{2}$ hours. He rested for 30 minutes at R and returned directly to town P at a steady speed of 80 km/hr.

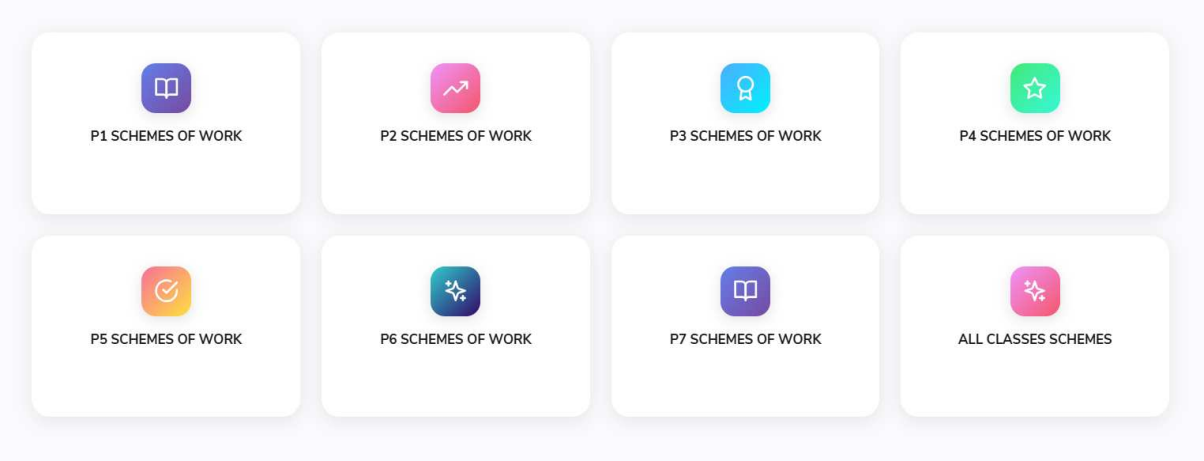
a) Represent the cyclist's journey on the graph below:



b) Calculate the cyclist's average speed for the whole journey.

END

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