NEXT EXAMINATIONS BOARD

PRE-PLE SET 11 (WOLF)

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. Work out: 102 + 65

2. Simplify: 7m – 10 – 3m + 8

3. Write "***Eighty thousand, eighteen***" in figures

4. Given that M = {k, i, t} How many subsets are in set M?

5. Express 0.75 as a fraction in its simplest form

6. With a help of a ruler, sharp pencil and a pair of compasses construct an angle of 45^0

7. Change 212_{three} to decimal base

8. How many half litre bottles can one obtain from a 20 litre jerrycan?

9. A dice was tossed once. What was the probability that an even number showed up?

10. Decrease 486kg by 20%

11. If today is Wednesday, what day of the week will it be after 38 days from now?

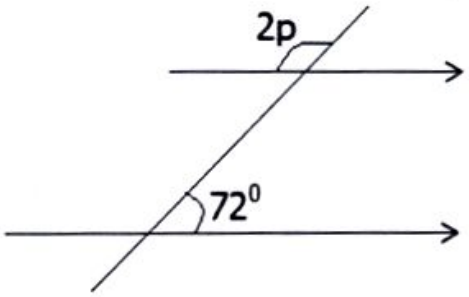
12. A school nurse started working at 9:15am and ended at 1:20pm. For how long did she work?

13. Express 20m/sec to km/hr

14. Find the **sum** of the next two numbers in the sequence

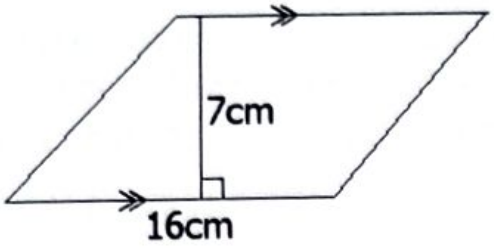
    2, 3, 5, 7, ..., ...

15. Find the value 0f k in the figure below.



16. Simplify: ¯3 - 6

17. Find the area of the figure below



18. The Lowest Common Multiple of W and Z is 144 and their Highest Common Factor is 24. If w = 72 find the value of Z

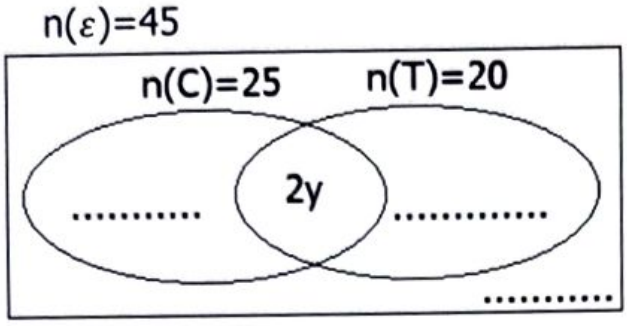
19. A market vendor was to sell his item. Selling it at sh. 60,000 would earn him a profit but selling it at sh. 45,000 would lead him to a loss. If the profit was twice the loss, what was the cost price of the item?

20. For every 2 boys, there are 5 girls in a class of 105 pupils. How many more girls are there than boys?

SECTION B: (60 marks)

21. In a group of 45 farmers, 25 farmers grow cotton(C) 20 grow tea (T) 2y grow both crops while 6 don't grow any of the crops

a) Complete the Venn diagram below **(3 marks)**



b) How many farmers grow only one type of crop? **(2 marks)**

22. a) Convert 13 ten to binary base **(2 marks)**

b) Find the value of k if $2k1_{five} = 66_{ten}$ **(3 marks)**

23. a) Simplify: $\frac{1}{2} - \frac{2}{3} + \frac{1}{4}$ **(2 marks)**

b) Work out: $\frac{0.28 \times 3.6}{0.7 \times 0.6}$ **(3 marks)**

24. The sum of three consecutive even numbers is 72. Find the numbers **(5 marks)**

25. Omaido went to the market and bought the following items

- 3kg of sugar at sh 4000 per kg
- $1\frac{1}{2}$ litres of milk at sh 2000 per litre
- 500g of salt at 1800 per kg
- $\frac{1}{2}$ kg of meat at sh.6000

a) Calculate her total expenditure **(4 marks)**

b) If she had sh.30,000, calculate her change **(1 mark)**

26. The time table below shows the journey made by Kakise bus from Soroti to Kampala. Use it to answer the questions that follow.

Distance	Town	Arrival	Departure
0	Soroti		8: 30 a.m.
55	Kumi	9: 10 a.m.	9: 15 a.m.
70	Mbale	10: 05 a.m.	10: 20 a.m.
120	Iganga	11: 30 a.m.	11: 50 a.m.
50	Jinja	12: 20 p.m.	12: 30 p.m.
95	Kampala	3: 00 p.m.	

a) Express the arrival time of the bus to Jinja as a 24 – hour clock system. **(1 mark)**

b) Find the distance between Kumi and Iganga. **(1 mark)**

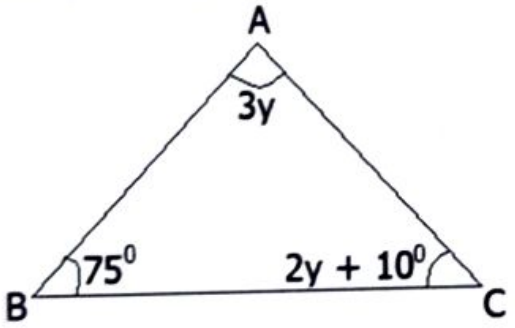
c) How many stopovers did the bus make in the whole journey? **(1 mark)**

d) Calculate the average speed of the bus for the whole journey. **(2 marks)**

27. a) Solve for y; $2(y + 2) = 12$ **(2 marks)**

b) Pablo is two thirds as old as Caleb and he is 12 years younger than Marvin. Find Caleb's age in 14 years to come. **(3 marks)**

28. Study the figure below and use it to answer questions that follow



a) Find the value of y **(3 marks)**

b) Find the size of angle CBA **(2 marks)**

29. Given the integers 7, -4, 0, 5, and -2

a) Arrange the integers in increasing order **(2 marks)**

b) Find the range of the integers **(2 marks)**

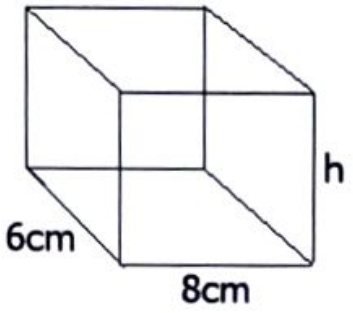
c) Work out their median **(1 mark)**

30. Given the number 54,698

a) Expand the number given using powers of ten **(1 mark)**

b) Work out the **difference** between the values of 4 and 9 **(3 marks)**

31. The volume of the figure below is 0.24 litres.



a) Find the value of h **(3 marks)**

b) Calculate its total surface area **(2 marks)**

32. A cyclist leaves town **X** and travels 50 km on a bearing of **060°** to town **Y**. From town **Y**, she travels 90 km on a bearing of **150°** to town **Z**. using a scale of 1 cm to represent 10 km.

a) Draw a sketch diagram to show the three towns. **(1 mark)**

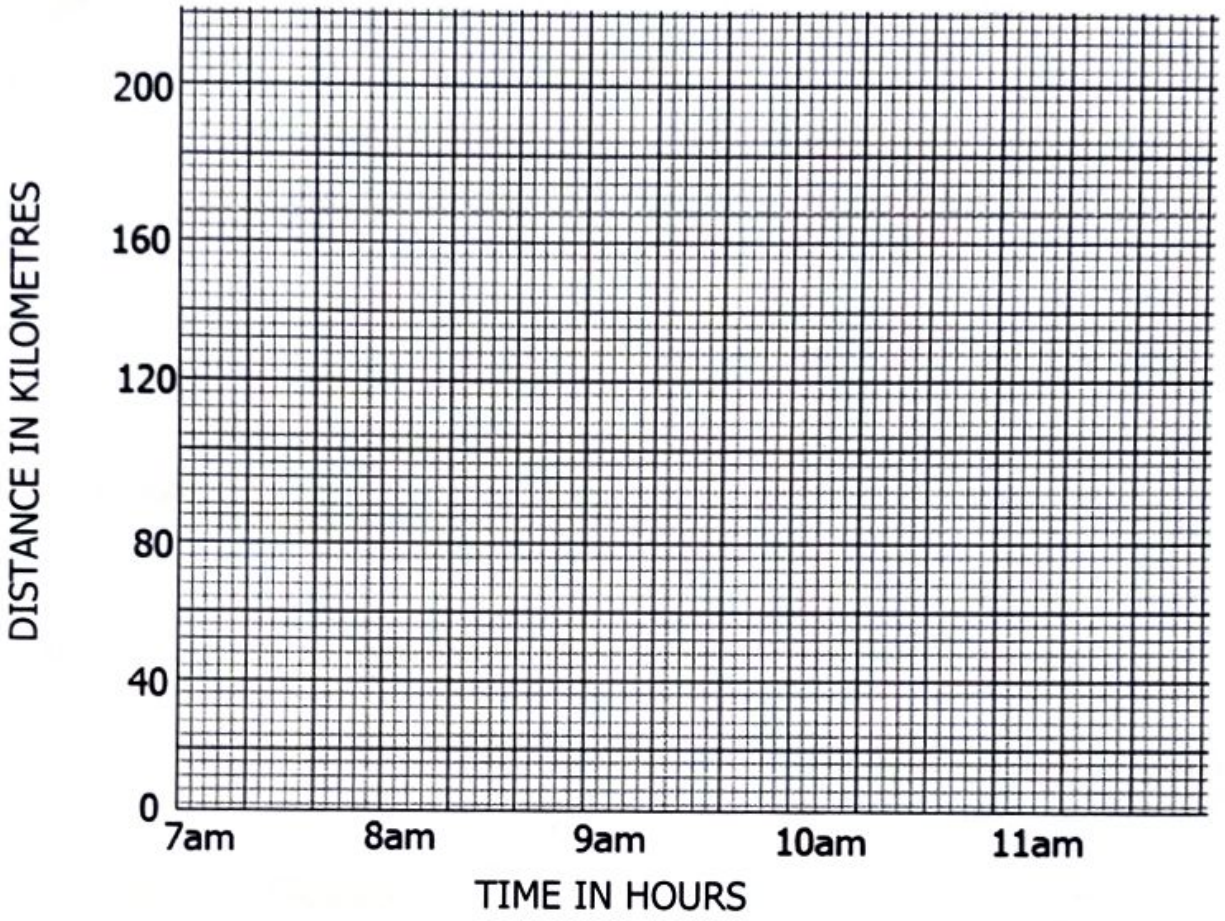
b) Draw an accurate diagram showing the position of the three towns. **(4 marks)**

c) Find the shortest distance between town **X** and **Z**. **(1 mark)**

END

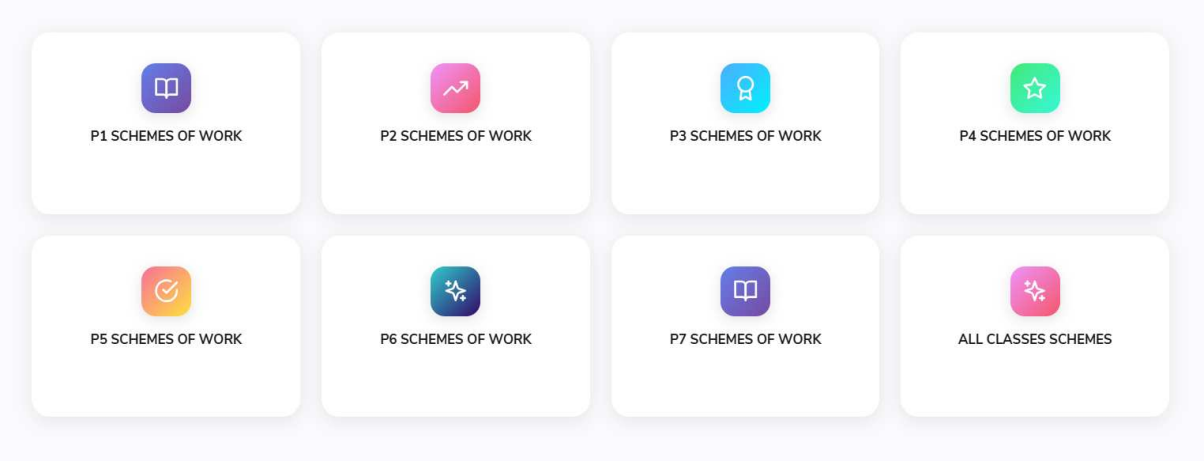
4. Town L and town K are 200km apart. A bus left town L at 7:00am, to got to town K through town J. It moved at a speed of 80km/hr for an hour from town L to town J. At town J, it stopped for 40minutes and then continued to town K at an average speed of 60km/hr.

   a) Draw a graph to show the bus' journey.



   b) Calculate the average speed for the whole journey.

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