NEXT EXAMINATIONS BOARD

PRE-PLE SET 1 (TIGER)

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 **11 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.

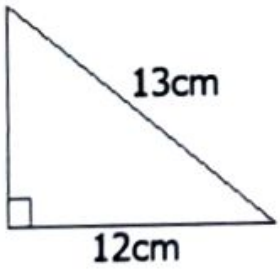
FOR EXAMINERS' USE ONLY		
QN. NO.	**MARKS**	**EXR'S NO.**
1 – 5		
6 – 10		
11 – 15		
16 – 20		
21 – 22		
23 – 24		
25 – 26		
27 – 28		
29 – 30		
31 – 32		
TOTAL		

7. A meeting that lasted for $2\frac{3}{4}$hours ended at 2:30pm at what time did it start?

8. Change 46 to quinary base

9. How many $\frac{5}{6}$ kg packets of salt can be obtained from a 30 kg sack?

10. Below is a triangle. Calculate its area



11. The average age of 5 boys is 15 years. Calculate their total weight.

12. How many lines of folding symmetry has the figure below?



13. Write 0.00234 in scientific notation

14. A course began in March and lasted for 17 months. In which month did it end?

15. The LCM of two numbers is 180 and their GCF is 6. If one of the numbers is 36, find the second number.

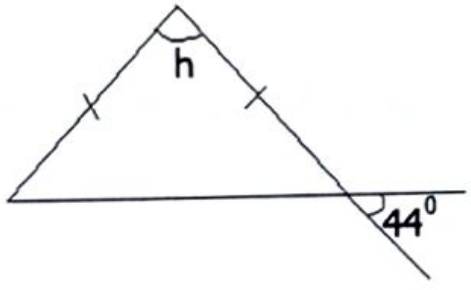
16. A dozen of fountain pens costs sh. 28,800. Find the profit on each pen if each pen is sold at sh. 3000.

17. Express 0.2727... as a simplified common fraction.

18. A dice is tossed once, what is the probability of a composite number appearing on top?

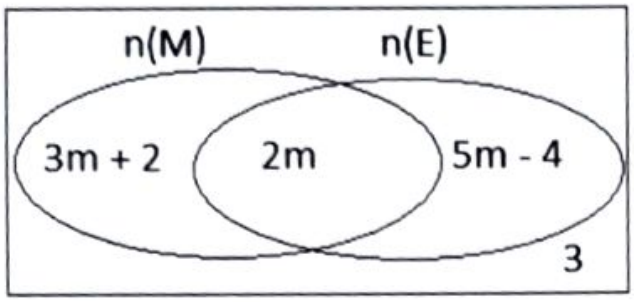
19. Waiswa rode a bike at a speed of 54km/hr for $1\frac{1}{2}$ hours, what distance did he cover?

20. In figure below, find the value of h in degrees.



SECTION B: (60 marks)

21. The venn diagram below shows pupils who like Mathematics(M), English(E) and other subjects. Study it and answer questions that follow



a) If 30 pupils like only one subject, find the value of m. **(3 marks)**

b) Calculate the total number of pupils in the class **(2 marks)**

22. a) Subtract: $214_{five} - 34_{five}$ **(2 marks)**

b) Find the unknown base n. $103_n = 34_{five}$ **(3 marks)**

23. On a certain farm, $\frac{2}{3}$ of the animals are cows, $\frac{1}{2}$ of the remainder are goats and the rest sheep. If there are 42 sheep, find how many animals that are on the farm? **(5 marks)**

24. The bursar withdrew 55 twenty thousand shilling notes numbered consecutively

a) How much money did she withdraw? **(2 marks)**

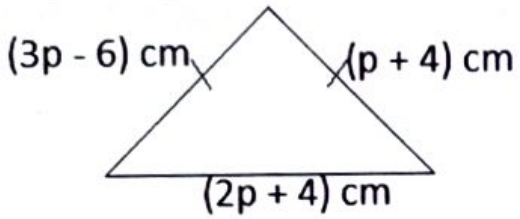
b) Find the serial number on the first note if the last note had AB003881. **(2 marks)**

25. The median of 3 consecutive even numbers is 14

a) Find the numbers **(4 marks)**

b) Write the largest number in Roman numerals **(1 mark)**

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



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

b) Work out the perimeter of the figure **(3 marks)**

27. a) Using the numbers 30 and 36, prime factorize and represent the prime factors on a Venn diagram **(3 marks)**

b) Find the LCM of the numbers **(2 marks)**

28. a) Given the number 26.495; Work out the **sum** of the value of 6 and 9 **(3 marks)**

b) Find the number expanded to give:

$(3x10^{3}) + (4 \times 10^{1}) + (5 \times 10^{-1})$ **(2 marks)**

29. A motorist left town A driving at a speed of 60 km/hr for 3 hours to B. if he returned in 5 hours

a) Work out the average speed for the whole journey. **(3 marks)**

b) Express $2\frac{1}{3}$ hours as seconds. **(2 marks)**

30. Aine, Becky and Cathy shared money in the ratio 3:4:5 respectively. If Cathy received sh.25,000 more than Aine,

a) Find the total amount of money they shared altogether. **(3 marks)**

b) How much did Becky receive? **(2 marks)**

31. The table below shows marks scored by pupils in an examination

Marks scored	80	95	85	m
Number of pupils	3	2	4	2

a) How many pupils did the examination? **(2 marks)**

b) Given that the average score is 80, find the value of m **(3 marks)**

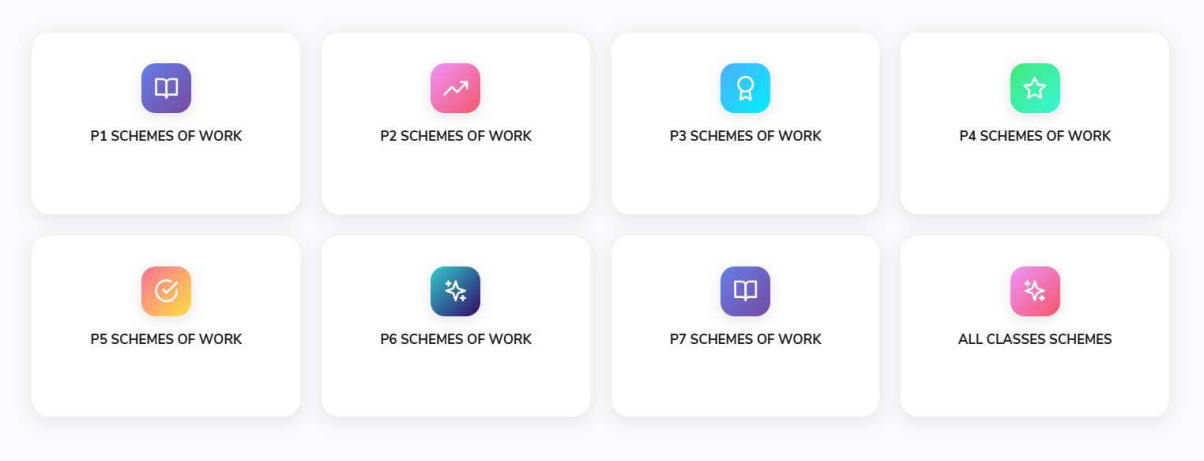
32. a) Using a ruler, a sharp pencil and a pair of compasses, construct a triangle XYZ, where WX =7cm, angle XWY =120^0 and WY = 5cm

(4 marks)

b) Measure angle WXY **(1 mark)**

END

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