NEXT EXAMINATIONS BOARD

PRE-PLE SET 12 (GORILLA)

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 **16 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		

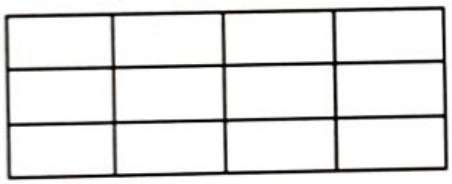
SECTION A: (40 marks)

1. Workout: 23 x 3

2. Write 0.34 in words.

3. Edrina is 15 years older than her friend Ethel. Write Edrina's age in Roman numerals if Ethel is 14 years old.

4. Shade 75% of the figure bellow.



5. The median of 4, 5, k, 6, 7 and 8 is 6 as they are arranged. Find the value of k.

6. Temperature in a certain place increased by 4^0c to -3^0c. What was the temperature before the increase?

7. After keeping his money in the bank for 4 months, Danny found sh. 124,000 on his account. How much did he deposit, if the bank gives an interest rate of 10% per year?

8. Simplify: $t^3 \div t^5$

9. Write the time shown on the watch below in words.



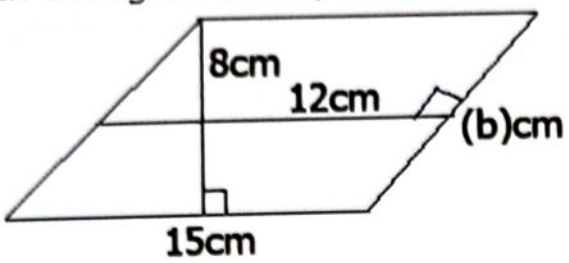
10. Nabwire got K.sh. 7,500 after exchanging her Ug.sh. 195,000 to Kenya shillings. Find the exchange rate.

11. Given that: d = ¯12 and c = ¯4, evaluate: c ÷ d

12. Find the additive inverse of ¯11.

13. In a group, there are $\frac{2}{5}$ less boys than girls. Find the fraction for boys.

14. In the figure below, find the value of the missing side.



15. Given that P = {all composite numbers less than 10}. Find n(P)

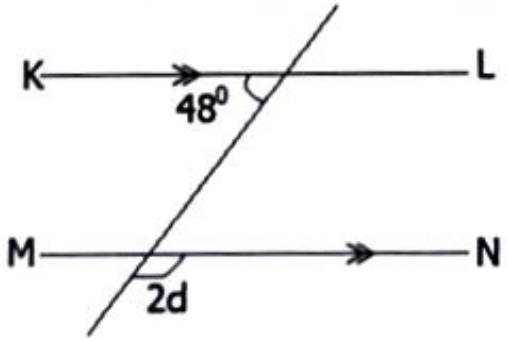
16. The average mass of 2 girls is 17kgs, when three other girls join them the total mass becomes 115kg. Find the average mass of the three girls.

17. Express 405 in the standard form.

18. The direction of town R from town K is N37^{0}W. Find the bearing of town R from town K.

19. A wheel of a car covered 22metres in five revolutions. Calculate the diameter of the wheel in centimetres.

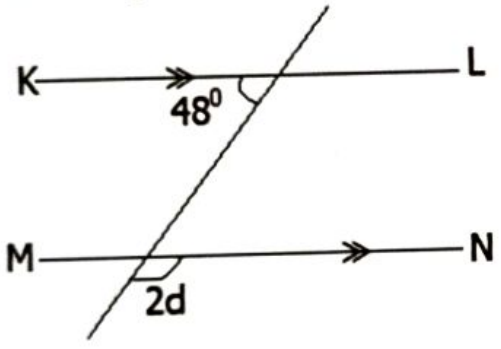
20. In the figure below line KL is parallel to line MN. Find the value of d



18. The direction of town R from town K is N37^{0}W. Find the bearing of town R from town K.

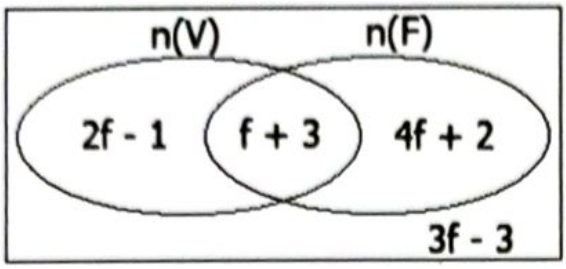
19. A wheel of a car covered 22metres in five revolutions. Calculate the diameter of the wheel in centimetres.

20. In the figure below line KL is parallel to line MN. Find the value of d



SECTION B: (60 marks)

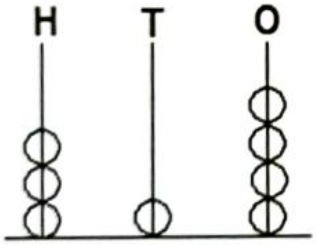
21. The Venn diagram below represents the number of boys who like playing volleyball (V) and football (F). Use it to answer the questions that follow.



a) Give that the number that likes playing volleyball is equal to the number that does not play football. Find the value of f. **(3 marks)**

b) How many boys like playing volleyball but not football? **(2 marks)**

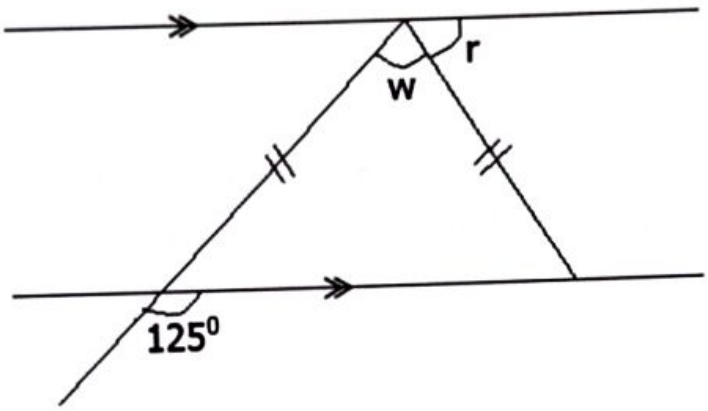
22. a) Change the number shown on the abacus below to base seven. **(2 marks)**



_____

b) Today is Friday 11th October, 2024. What day of the week was it on the 17th June of the same year? **(3 marks)**

23. The diagram below shows QR parallel to SF. Use it to answer questions about it.



(2 marks each)

Find the value of:

a) w

b) r

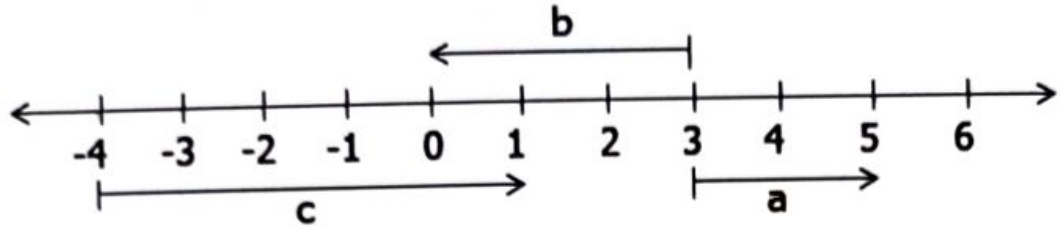
24. The expenditure of a man is shown in the table below

Food	rent	fees	others
20%	15%	40%	h

a) Find the value of h **(2 marks)**

b) Using a protractor, a ruler, a pair of compasses and a pencil construct a pie chart of radius 4cm to represent the information. **(4 marks)**

25. Use the number line below to answer the questions about it.



a) Name the integers represented by arrows **(3 marks)**

i) a = ... ii) b = ... iii) c = ...

b) Work out the sum of integers **a** and **c**. **(2 marks)**

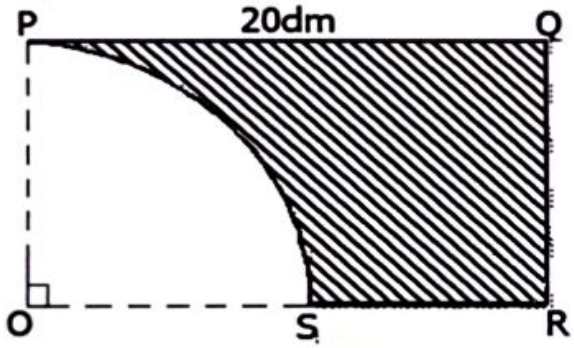
26. a) Simplify: $\frac{2}{5}(40h - 25)$. **(2 marks)**

b) At Hiba's 13th birthday, her father was 40 years. After how many years will Hiba be half as old as her father? **(3 marks)**

27. a) Express $66\frac{2}{3}$ % as a simplified ratio. **(2 marks)**

b) After selling a watch at sh.64,000 a hawker made a loss of 20%. Calculate the original price of the watch. **(3 marks)**

28. In the figure below, line PQ = 20dm and arc PS = 22dm. Use it to answer the questions that follow.



a) Find the length of line QR **(2 marks)**

b) Calculate the distance around figure PQRS **(3 marks)**

29. Pablo went to the market with two-ten thousand shilling notes and bought the following items.

- 500gms of salt at sh. 2,000 per kg
- 2 tins of Omo at sh. 3,500 each
- 24 oranges at sh. 1,200 for a heap of six oranges.

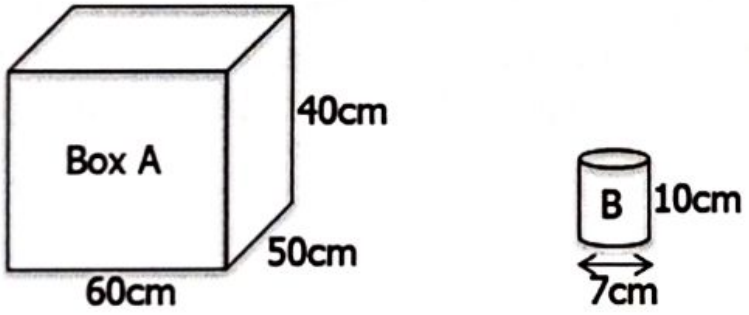
a) Find the total expenditure. **(4 marks)**

b) Work out her change. **(1 mark)**

30. a) Draw bundles to represent 46. **(2 marks)**

b) A minute hand loses 2 more minutes than the previous hour. A timer monitored this clock face for 3 consecutive hours. How many seconds were lost during that period? **(2 marks)**

31. Below is a rectangular box A and a cylindrical tin B.



a) How many tins can be packed in the first layer? **(3 marks)**

b) How many layers will be formed if all tins are packed? **(1 mark)**

c) Calculate the volume of the space left after packing all tins. **(2 marks)**

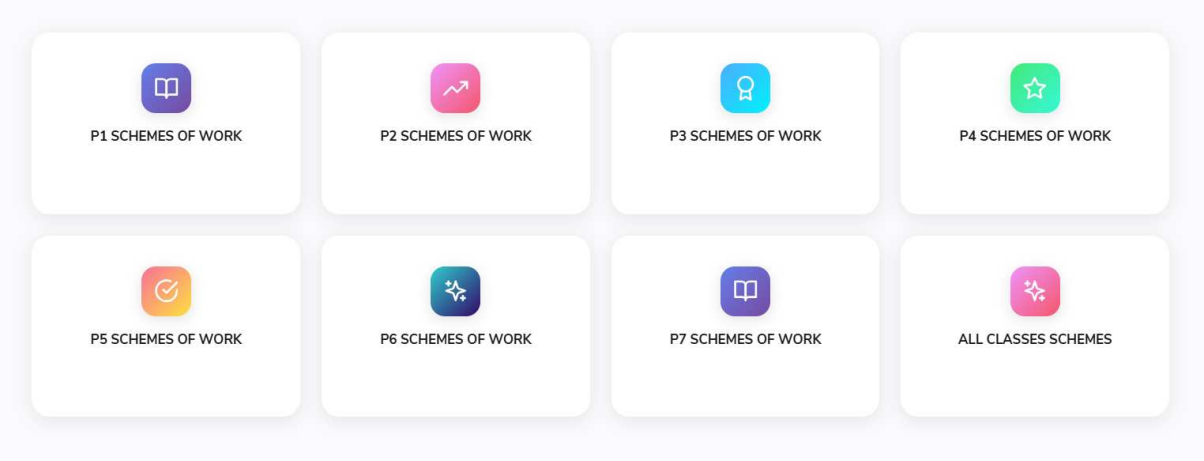
32. Town Q is 75 km west of town P and town R is 105 km from town Q on a bearing of 210^0. Using a scale of 1 cm to represent 15 km,
a) Draw a sketch diagram showing the three towns. **(1 marks)**

b) Draw an accurate diagram showing the location of all the three towns.
(5 Marks)

c) Find the shortest distance between town P and town R in kilometres.
(1 Mark)

END

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