THE E-LEARN EXAMINATIONS BOARD

PRE-PLE SET 1 - LOWER WORK

2025

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Index No.	Random No.						Personal No.		

Candidate's Name: .....

Candidate's Signature: .....

School Name: .....

Read the following instructions carefully:

1. Do not write your **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 **12 printed pages**.
3. Answer **all** questions. **All** the working for both sections **A** and **B** must be shown in the spaces provided.
4. **All** the 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 read easily may lead to **loss of marks**.
7. Do not fill anything in the table indicated **"FOR EXAMINERS' USE ONLY"** and boxes inside the question paper.

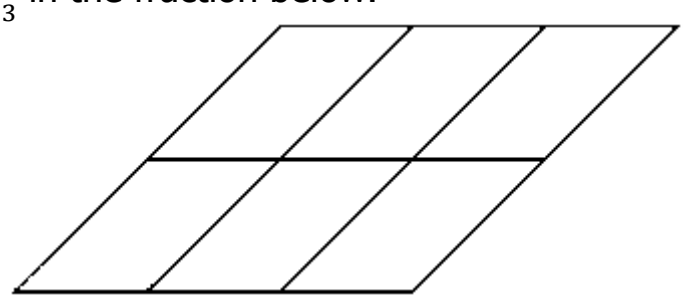
FOR EXAMINERS' USE ONLY		
QN. NO.	**MARKS**	**EXR'S NO.**
1 – 5		
6 – 10		
11 – 15		
16 – 20		
21 – 22		
23 – 24		
25 – 26		
27 – 28		
29 – 30		
31 – 32		
TOTAL		

SECTION A: 40 MARKS

*Answer **all** the questions in this section.*
*Questions **1** to **20** carry two marks each.*

1. Work out 24 plus 47 vertically.

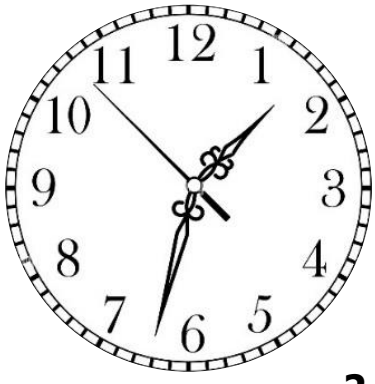
2. Shade $\frac{2}{3}$ in the fraction below.



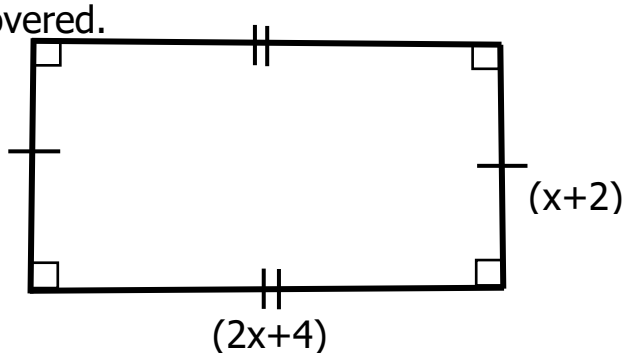
3. Atim shared apples among her children. Ojangole got the apples represented below. Given  represents 12 apples, Calculate the number of apples he got.

4. Busaabala road is 72,400 meters long. How many kilometers is that road?

5. Kanyakole reached home at the time shown on the clock face below. If he arrived in the afternoon hours. Tell his arrival time in words.



6. An ant ran around a rectangular block below five times. Calculate the distance it covered.



7. Find the product of the next number in the sequence below and 7
1, 3, 5, 7, ……

8. Abooki went shopping with three notes of five thousand shillings and bought a dress at twelve thousand shillings. Calculate the change she took back home.

9. Change 201_{three} to base ten.

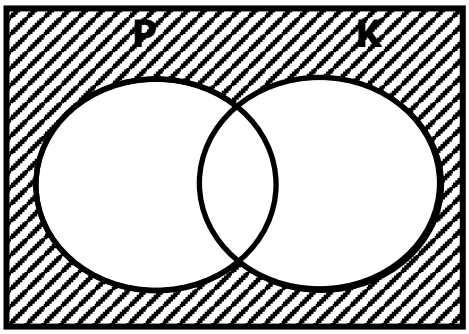
10. Atwine is 82 years old. If her daughter is half her age, find the sum of their age and write it in Roman numerals.

11. Workout the L.C.M of 5 and 12.

Turn Over

12. Better wording: A pot holds 20 litres of tea. Nabanwabo serves tea to her clients using a half-litre cup. How many cups can she serve from the pot?

13. Write the set region shaded below.



14. Round off 432.437 to the nearest tenth.

15. There are 13 girls and 12 boys in Primary Seven. Teacher Mwiru wants to send one pupil to pick chalk. What is the probability of sending a girl?

16. Blitz gave out six hundred thirty-nine banana suckers to Mwididi, Ainembabazi, and Kakuru. How many banana suckers did Kakuru get if they shared equally?

17. Write the number expanded below
$(4 \times 10^3) + (2 \times 10^2) + (7 \times 10^1) + (3 \times 10^0)$

18. Calculate the average of: 2b, 3k, 5b, and 2k

19. Given digits 7, 0, 8, 2, and 4, write the smallest and largest number which can be formed.

20. In the space below, construct an angle of 45°.

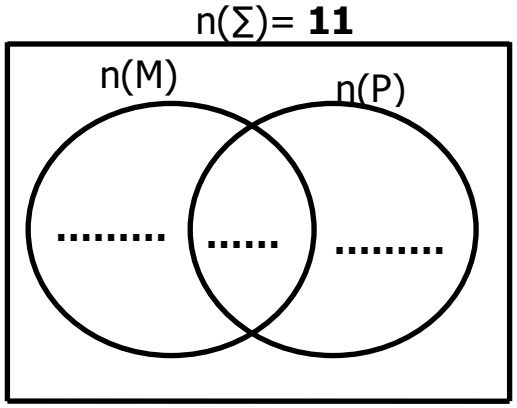
SECTION B: 60 MARKS

*Answer **all** the questions in this section.*
Marks for each question are indicated in brackets

21. Set M is a set of square numbers below 36.
Set P is a set of even numbers below 14.
(a) List the elements of set M and set P *(02 marks)*

Turn Over

(b) Show the above information on the Venn diagram below. *(03 marks)*



22. The pictograph below shows Primary Seven pupils who carried their pots on Cultural Exhibition Day. Use it to answer the questions that follow:

Pupils	**Pots carried**
Carl	
Kakembo	
Azawi	
De - Shaba	
Ekakwa	

KEY

Represents 14 pots

(a) How many pots did Carl carry? *(01 mark)*

(b) How many more pots did Kakembo carry than Ekakwa? *(02 marks)*

(c) Work out the sum of pots which were carried by all pupils. *(02 marks)*

23. Using a pencil, ruler, and pair of compasses only, construct triangle ABC where AB = 6 cm, ∠CAB = **90°**∠CBA = **60°** *(04 marks)*

Measure **AC** and calculate the area of the triangle. *(01 mark)*

24. (a) Convert 1.5 into a mixed numeral. *(02 marks)*

(b) Primary Seven class has sixteen boys and twenty-four girls. If ¼ of the pupils are day scholars

(i) How many pupils are in the boarding section? *(03 marks)*

Turn Over

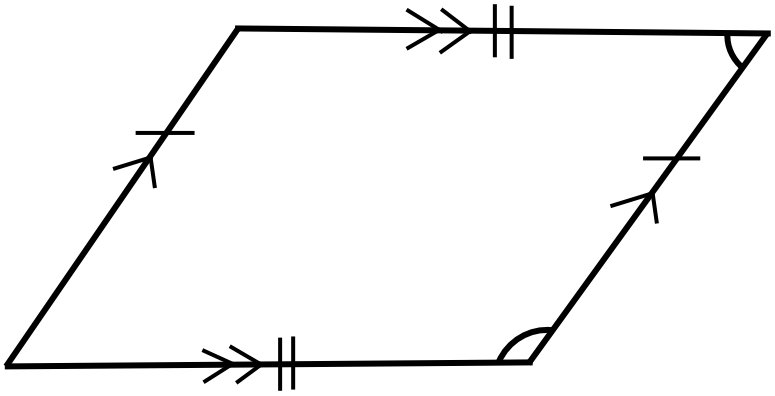
(ii) How many more pupils are in boarding than in day? *(01 mark)*

25. Given: k = 5, b =t= 4, m = 6

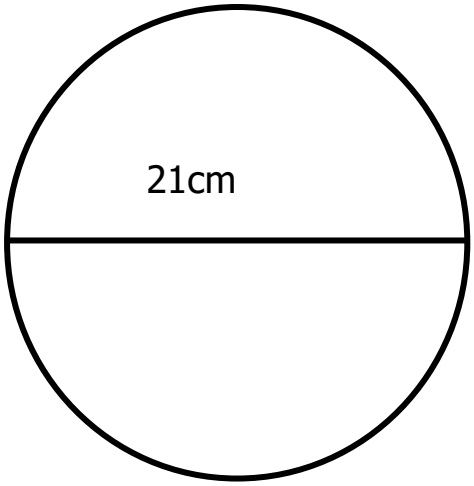
(a) Work out: $\frac{2k+m}{b}$ *(02 marks)*

(b) Solve: mb – kt + b *(02 marks)*

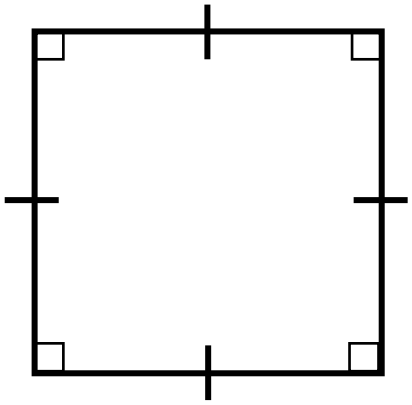
26. (a) Name the following geometrical shape. *(01 mark)*



(b) Work out the area of the shape below. Take $\pi = \frac{22}{7}$ *(02 marks)*



(c) Show the line of folding symmetry in the figure below. *(01 mark)*



27. (a) Simplify: $2\frac{1}{2}$ of $3\frac{1}{3} \div 1\frac{2}{5} - \frac{5}{6}$ *(02 marks)*

(b) $\frac{3}{8}$ of Jumbo's monthly salary is sh. 81,000. Find his full salary. *(02 marks)*

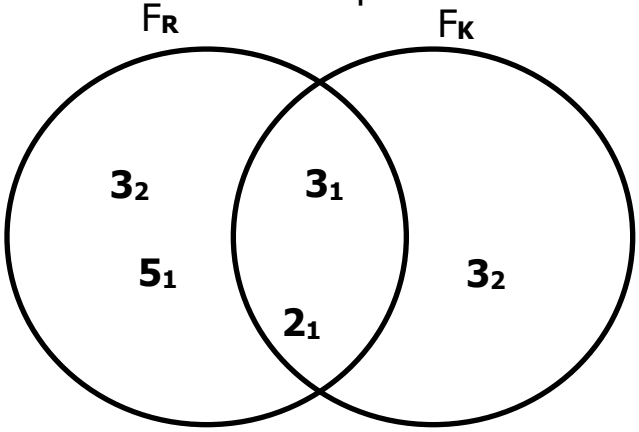
(c) Primary Two class has boys and girls in a ratio of 5:8.
If a girl is picked at random, find the probability of picking a girl. *(01 mark)*

28. Tibakoberwa went shopping with four notes of twenty thousand shillings and bought the following items:
3 books at sh. 3,500 each
500 grams of turmeric at sh. 2,000 per kg
4 liters of cooking oil at sh. 1,500 per liter
3 loaves of bread at sh. 15,000
(a) Calculate her total expenditure. *(04 marks)*

Turn Over

(b) Work out her change if she was given a discount of 10% of her total expenditure. *(02 marks)*

29. Numbers R and K below are prime factorized and shown on the Venn diagram.



(a) Work out the G.C.F of R and K *(01 mark)*

(b) Which number is represented by: *(02 marks)*
(i) R

(ii) K *(02 marks)*

30. (a) Express 10101_{two} to denary base. *(02 marks)*

(b) Work out the value of 3 in 2310_{four} *(02 marks)*

(c) Write the place value of 5 in 256_{seven} *(01 mark)*

31. The sum of the digits in the figure below vertically, horizontally and diagonally are equal.

5	**0**	**A**
C	**4**	**B**
D	**8**	**3**

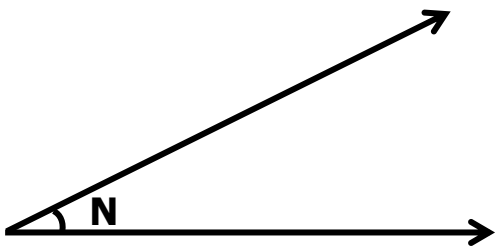
(a) Find the magic sum *(01 mark)*

(b) Find the value of *(01 mark@)*

A B C D

A	**B**	**C**	**D**

32. (a) Name the type of angle below. *(01 mark)*



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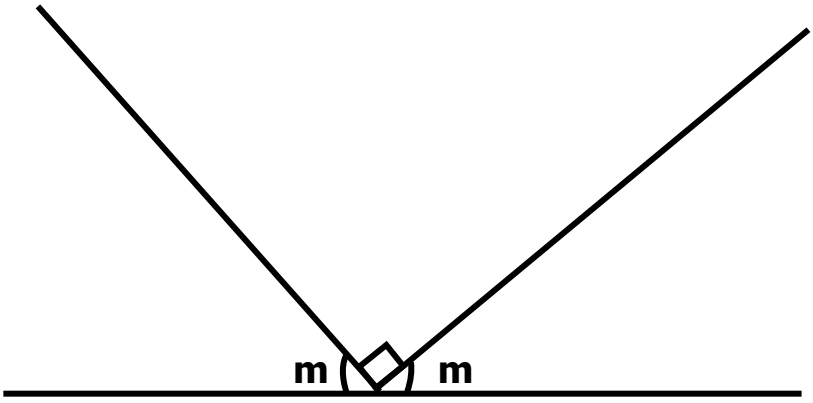
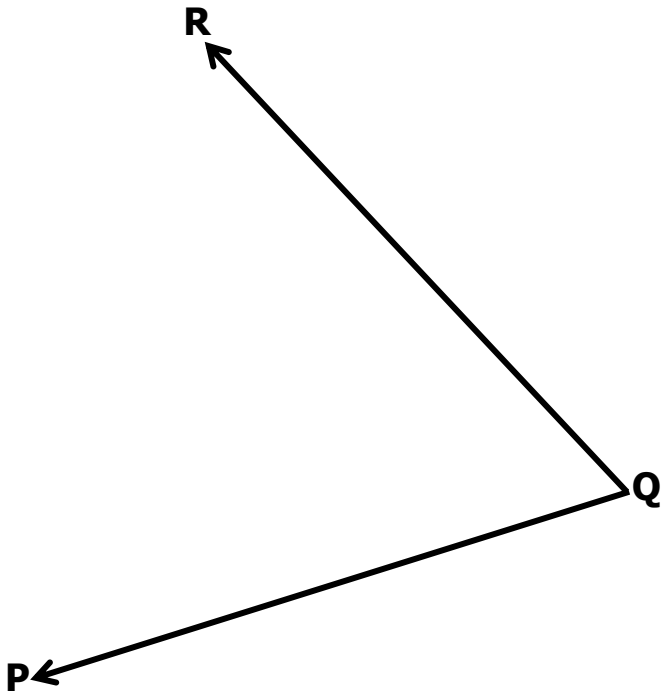
(b) Calculate the unknown angle below: *(02 marks)*



(c) Bisect angle PQR below using a pair of compasses and a pencil only.
(02 marks)



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