KAMPALA PRIMARY SCHOOLS HEADTEACHERS' EXAMINATIONS COMMITTEE (KAPSHA)

PRIMARY SEVEN PRE-MOCK EXAMINATIONS 2025

MATHEMATICS

TIME ALLOWED: 2 HOURS 30 MINUTES

Random No.						Personal No.		

Candidate's Name: _____

School: _____

Division: _____ ***School No:*** | | | | |

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

Read the following instructions carefully.

1. This paper is made up of two sections: **A** and **B**
2. Section **A** has ***20*** questions (**40** marks)

   Section **B** has ***12*** questions (**60** marks)
3. Answer **all** questions. **All** answers to both section **A** and **B** must be written in the spaces provided.
4. ALL answers **MUST** be written using a **Blue** or a **Black** - point pen of fountain pen.
5. Un-necessary changes of work may lead to loss of marks.
6. Any handwriting that cannot easily be read may lead to loss of marks.
7. Do **not** fill any thing in the boxes shown "***For Examiner's use only***".

FOR EXAMINERS' USE ONLY		
QN. NO	***MARKS***	***SIGN.***
1 – 10		
11 – 20		
21 – 25		
26 – 30		
31 – 32		
TOTAL		

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TURN OVER

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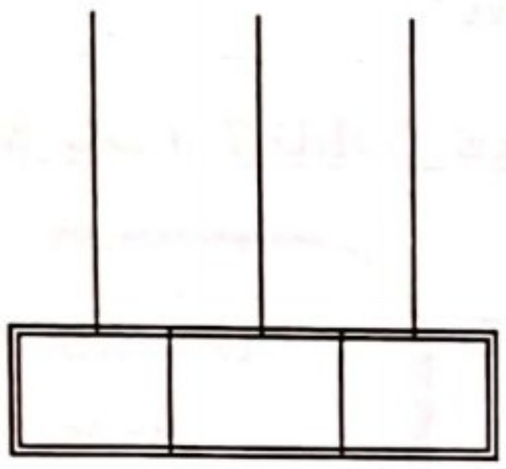
SECTION A (40Marks)

1. **Divide:** 9 ÷ 3 =

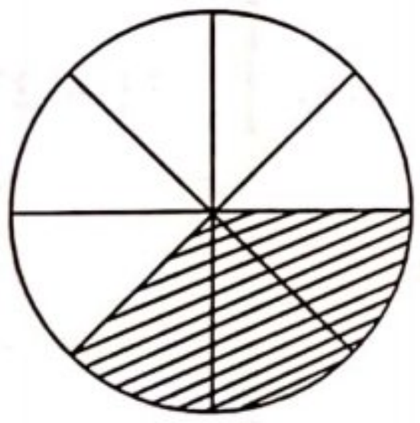
2. Given that **A** = {All factors of **15**}
Find **n(A)**

3. Represent $\mathbf{304_{five}}$ on the abacus.

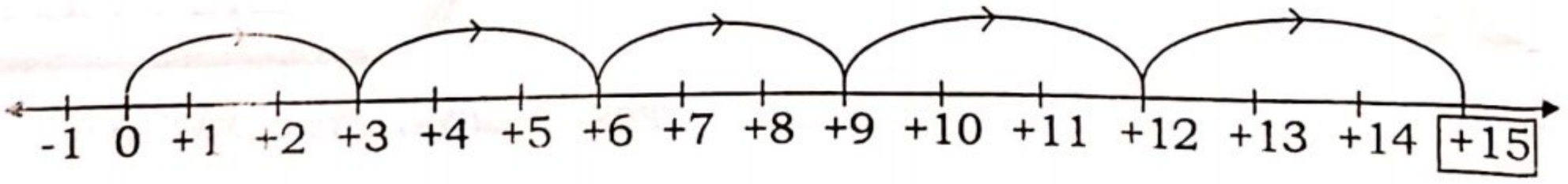


4. The product of **2** numbers is **180** and their **LCM** is **60**. Find their **GCF**.

5. In the diagram below, the shaded region represents the number of girls in our class and unshaded region is for the number of boys in our class has **60** boys. Find the number of pupils who are in our class.



6. ***Study the number line below and write a mathematical sentence shown.***



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7. The average weight of Joan, Jesca and Janifar is weight **39kg**. If Joan and Jesca have the same weight and Janifar weighs **39kg**. Find the average weight of Joan and Jesca.

8. Using a ruler, a pencil and a pair of compasses only, construct an angle of **150°** at point **K**.

K

9. An examination which lasted for **2½** hours ended at 1:15pm. At what time did it start?

10. A trader sold 4litres of Jessa milk at **sh. 1700** per 500ml. Find the amount of money the trader got from selling milk.

11. The base area of the cylinder below is **154cm²**. Calculate its volume.

12. If **a = -4** and **b = 2**. Find **ab – a²**

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13. Tom scored the following marks from several mathematics tests **8, 5, 7, 6, 8, 9, 4, 7, 10** and **6** Find the probability that Tom scored above average mark.

14. Find the number which was expanded to give;
$4x10^2 + 6 \times 10^0 + 5 \times 10^{-2}$

15. Workout: **45÷15** using repeated subtraction.

16. Find the next number in the sequence below.
125, 25, 5, 1, ____

17. Workout: **0.45 – 0.6**

18. The table below shows multiplication in finites **5**. Complete the table showing your working.

Finite 5

x	4	3
2	3	___
4	___	2

19. The exterior angle of a regular triangle is **$4k + 20^0$**. Find the the value of **k**.

20. A square table has its area **$2.25m^2$**. Calculate the length of each side of the table.

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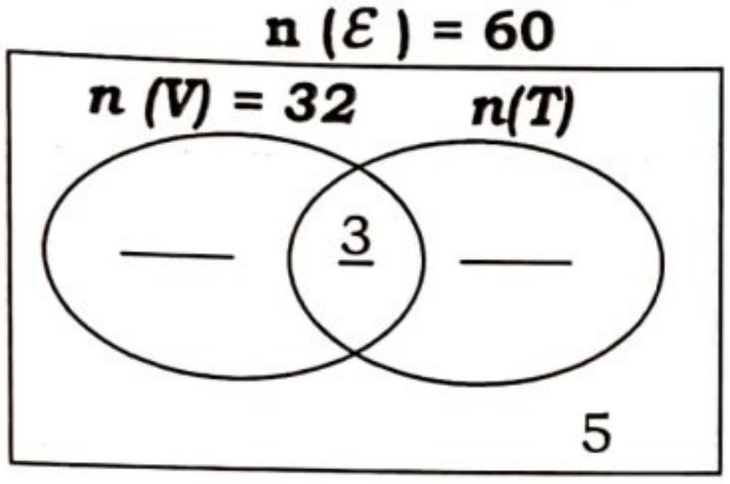
SECTION B (60Marks)

21. **60** pupils went for ball games competitions. All of them participated in football, **32** pupils participated in football and volleyball (**V**), **5** pupils participated in only football, **Y** pupils participated in football and tennis only whereas **3** pupils participated in all the **3** games.

a. Use the information to complete the Venn diagram below.



(2marks)

b. Find the number of pupils who participated in football and tennis.

(1mark)

22. a. Expand 213_{five} using values.

(2marks)

b. Solve for **m**: $m^3 = 121_{seven}$

(3marks)

23. a. In a market there are **324** girls, **276** boys, **410** women and the rest are men. If there are **1500** people in the market, find the number of men in the market.

(2marks)

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b. If a market master charged **sh.1000** from each man and **sh. 500** from each woman. Calculate the total amount of money the market master collected altogether.

(3marks)

24. Wasswa takes **72**seconds to make a lap and Kato takes only **60**seconds to make a lap. If they start at the same time from the same starting point, how long will it take for them to meet at the same starting point again?

(2marks)

b. If they start at 11:55am, at what time will they meet at the starting point again?

(3marks)

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25. In a school, the ratio of girls to boys is **3:2** respectively. If **40%** of the boys are in upper primary and **70%** of the girls are in lower primary. Find the number of pupils in the school given that **540** girls are in the upper primary.

(4marks)

26. During a mathematics lesson, a teacher shared counter sticks among different groups of learners in our class. When he shared them among learners in groups of **10,** eight counter sticks remained, when he shared them in groups of seven, **6** counter sticks remained and when he shared in groups of five, **3** counter sticks remained.

a. Find the least number of sticks the teacher shared.

(3marks)

b. It is 8:20pm now, find the time of the day after 52hours from now.

(2marks)

27. Given that **y = 3x – 1**

a. Complete the table below.

(2marks)

X	-3	-1	___	+3
Y	-10	___	+2	+8

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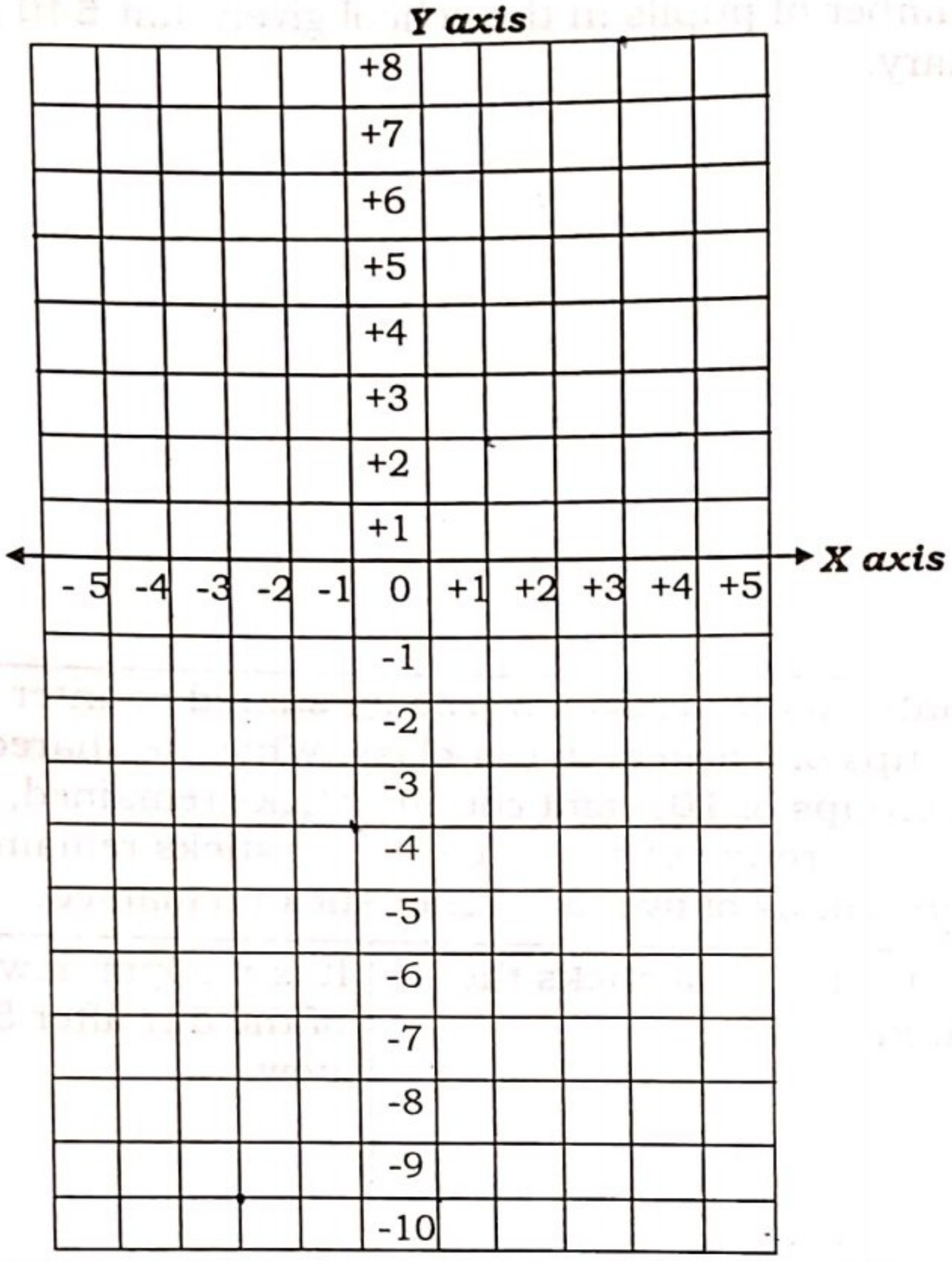
b. Plot the co-ordinate of **y = 3x - 1** to form a straight line on the grid.



(4marks)

28. Follow the instructions below and construct a triangle **ABC**.
Draw a line of segment **AB** of length **8cm**.
Construct a perpendicular line at point **B**.
Measure **6cm** along the perpendicular line and mark point **C**.
Join point **C** to **A** to complete the triangle **ABC**.

(4marks)

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29. A motorist set for a journey from town **P** at 10:45am driving at a speed of **60km/hr**. he reached town **Q** at 1:15pm and rested for **30**minutes. He completed the rest of **50km** to town **R** in 1hour.

a. How far is town **Q** from town **P**?

(3marks)

b. Calculate the average speed for the whole journey.

(3marks)

30. A tailor needs the following items to make a scouts uniform.

2½ meters of cloth at sh. 8,000 per meter
4 buttons at sh. 250per button
A belt at sh. 4,000
A badge at sh. 2,000
Labour at sh. 13,000

a. Find the cost of making the scout uniform.

(3marks)

b. If he offers a percentage discount of **10%.** How much does one pay for the uniform after that discount

(2marks)

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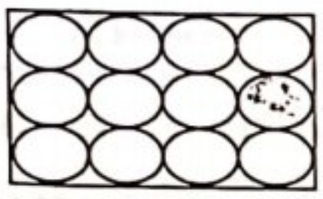
31. The diagram below shows circular plates laid on a rectangular tray. Study it and use it to answer questions.



a. If the area of each plate is **314cm²**. Find the radius of each plate (π = **3.14**)

(3marks)

b. If the length of the tray is **0.7** meters and width **0.6** meters, calculate the area of the space unoccupied by the plates.

(3marks)

32. A mother has **3** children; Alex, Amos and Alice. Alex is $\frac{1}{2}$ as old as his mother, Amos is $\frac{1}{3}$ as old as his mother and Alice is $\frac{1}{4}$ as old as her mother. The total age of the **3** children is **65**years. How old is the mother?

(4marks)

GOOD LUCK

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