LEARNMARK EXAMINATIONS BOARD

YOUR PATH TO EXCELLENCE

PRE-MOCK EXAMINATIONS 2025

MATHEMATICS

Time allowed: 2hours and 15minutes

Index number	Random number	Personal no

Candidate's Name.....

Candidate's signature.....

District ID number | | | | |

Read the following instructions carefully

1. The paper has **two** sections: **A** and **B**.
2. Section **A** has **40** questions (**40 marks**).
3. Section **B** has **15** questions (**60marks**).
4. All the answers for both section **A** and **B** must written in the **spaces provided only.**
5. All answers must be written using **a blue** or **black** point pen or **fountain** pen or ink.
6. Any work written in a pencil except for diagram **will not be marked.**
7. Unnecessary changes in your work and handwriting that **cannot** be read easily may lead to **loss of marks**.
8. **Do not** fill anything in the **table** indicated "**FOR EXAMINER'S USE ONLY**

FOR EXAMINER'S USE ONLY		
Qn. No.	MARKS	EXR'S No.
1 – 10		
11 - 20		
21 – 30		
31 – 40		
41 – 43		
44 – 46		
47 – 49		
50 – 52		
53 – 55		
TOTAL		

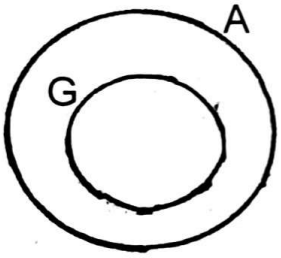
PLEASE TURN OVER

SECTION A

1. Subtract: **305 from 653**.

2. Find the value of **7** in the number **82762**.

3. Describe the relationship between the sets below.



4. Nambale had $\frac{3}{4}$ litres of milk. He gave out $\frac{1}{2}$ litres of the remainder to Joan. How much milk did he remain with?

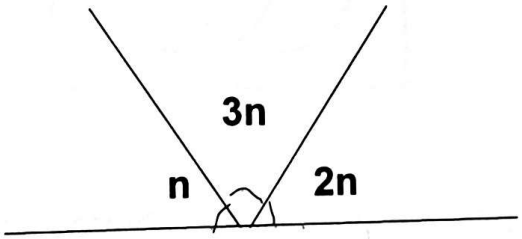
5. If  represents **12 balls**. How many balls are represented by  ?

6. Work out : $^{-}2 - {}^{-}5$.

7. Convert **25 m/s** to **km/h.**

8. Round off **35.82** to the nearest whole number.

9. Find the size of the unknown angle in the figure below.

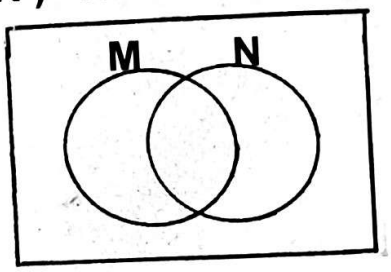


10. The numeral **9k2** is exactly divisible by **3**. Find the least value of k.

11. The marked price of a bag is **sh.40, 000**, if a trader paid **sh.36000** for the bag. Find the percentage discount.

12. Solve : **$2(h + 3) = 14$**

13. Shade **$(M \cap N)^1$** on the Venn diagram below.

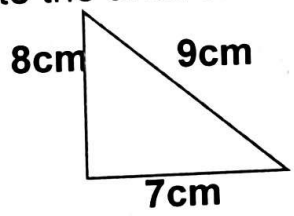


14. In the space provided, construct an angle **of 60^0**.

15. The **LCM** of two numbers is **72** and there GCF is **6**, If one of the numbers is **24**. Find the other number.

16. Work out : **3 + 4= y (finite 5)**

17. Calculate the area of the figure below.



18. Express 42_{ten} into base five.

19. Find the **21st** triangular number.

20. Twenty men can complete a piece of work in **12 days**. How many days will **30 men** take?

SECTION B (60 MARKS)

21. Nakiganda went to the shop and bought the following items.

3kg of posho at **sh.2000** per kg

2 $\frac{1}{2}$ kg of sugar at **sh.3600** each kg

2kg of sugar at 3000 per kg

3 dozens of books at **sh.500** each book

12 mangoes at **sh.500** for **3 mangoes**

a). Find the total amount spent on all the items. (03 Marks)

b). If he had **sh.65000**, how much change did he get? (02 marks)

22. The sum of three consecutive **odd numbers** is 69. If the second number is b; (03 marks)

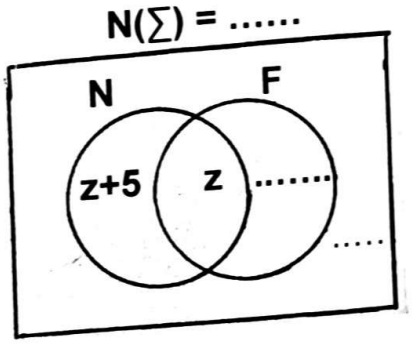
a). Find the value of b.

(02 marks)

b). Find the numbers.

23. In a class, **31** pupils play Football (F) and **(Z + 5)** play Netball (N) **only** Z, pupils play both games while 3 pupils play neither of the two games. (03 marks)

a). Complete the table below.



(02 marks)

b). How many pupils played only two games?

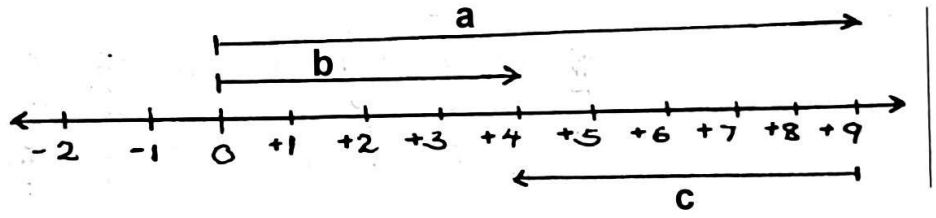
24. Construct a triangle **RST** where **RT = 7cm**, angle **SRT = 45^0** and angle **RTS = 60^0** . (03 marks)

b). Measure length RS. (01 mark)

25a. A farmer sold **CMLXXXIX** litres of milk. How many litres of milk were sold in Hindu Arabic Numerals? (02 marks)

b). Convert $\mathbf{32}_{\text{four}}$ to binary base. (03 marks)

26. Study the number line below and answer the questions that follows.



a). Write the integers represented by; (03 marks)

i). a .....

ii). b .....

iii). c. .....

b). Write the mathematical sentence shown on the number line.

(02 mark)

27. A school hired **10 buses** and **5 taxis** to take all pupils in a school for a tour. Each bus carries **33 pupils** and **14 pupils** by each taxi. Each pupil

paid **sh.45000**.

a). How many pupils are in the school? (03 marks)

b).How much money did the pupils pay altogether? (02 marks)

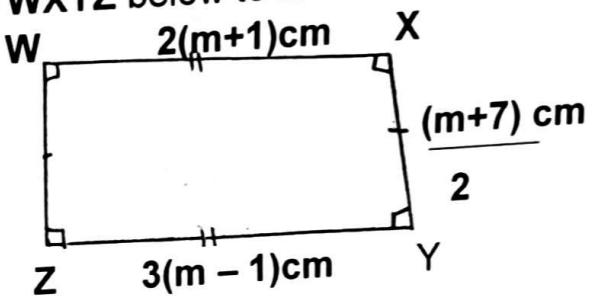
28. A motorist drove his car from **10:45am** at an average speed of **36km/h** to **1:00pm**.

a). Calculate the distance he covered. (02 marks)

b). If his car consumes **6 litres** of diesel for every **18km** and each litre costs **sh.6200**. How much will the whole journey cost him?

(03 marks)

29. Use the rectangle **WXYZ** below to answer the questions that follow.



(02 marks)

a). Find the value of m.

(02 marks)

b). Find the **area** of the rectangle.

c). Calculate the perimeter of the figure. (02 mark)

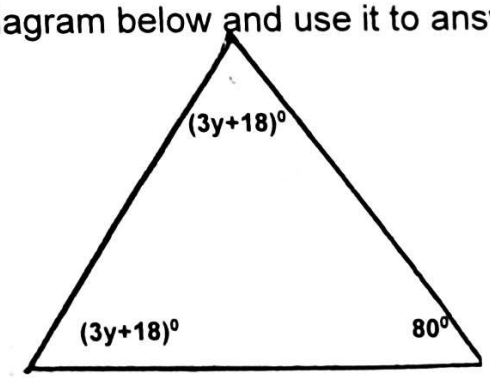
30a. Find the number that has been expanded to give;

$(2 \times 10^2) + (6 \times 10^1) + (3 \times 10^0) + (9 \times 10^{-1}) + (2 \times 10^{-2})$ (03 marks)

b). Simplify : $\frac{5.6 \times 0.24}{0.7 \times 0.6}$ **(02 marks)**

31a). John is **4 years** younger than Mary's age. If their total age is **32** years. How old is each of them. (03 marks)

b). Study the diagram below and use it to answer the questions that follow.



i). Find the value of y. (02 marks)

32. Primary seven candidates did a test and scored the marks as shown below.

Marks	80	40	K	50
Number of pupils	4	3	6	2

a). How many pupils did the test? (02 mark)

b). If the mean mark was **61**. Find the value of **k.** (03 marks

END