THE E-LEARN EXAMINATIONS BOARD

P.7 PRE PLE SET SIX / TEN

2024

MATHEMATICS

Time Allowed: 2 hours 15 minutes

Index No.	EMIS No.					Personal No.		

Pupil's Name: ....

Pupil's Signature: ....

School Name: ....

District Name: ....

Read the following instructions carefully:

1. Do not forget to write your **school** or **district name** on the 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 altogether.

3. Answer **all** questions. **All** working for both sections **A** and **B** must be shown in the spaces provided.

4. All answers **must** be written using a **blue** or **black** ball point pen or ink. Any work written in pencil will **not** be marked.

5. Unnecessary **changes** in your work and handwriting that cannot be read easily may lead to **loss of marks**.

6. 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 – 32		
TOTAL		

SECTION A: 40 MARKS
*Answer **all** the questions in this section*
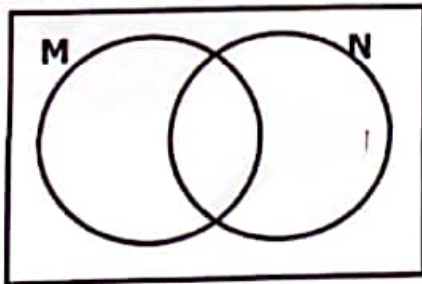*Questions **1** to **20** carry **two** marks each*

1. Work out: 34×2

2. Write 89,048 in words.

3. Simplify: $6rp - 6p - 2rp - 3rp^2 - p$

4. Find the next missing number 2, 3,5,7, 11, 13, ...

5. Shade $(N-M)'$ on the Venn diagram below.

6. Work out: $2\frac{1}{2} + \frac{5}{6}$

7. A double forty-five minute lesson ended at quarter to 1:00pm. When did it start?

8. Use tallies to represent the product of 7 and 3.

9. Simplify: $^-3 - {}^+8 =$

10. Given that Q = (1,2,3). Find the number of subsets that can be formed from set Q.

Turn Over

11. Which number must be added to the smallest 3-digit number formed by using digits 4, 9, 0 to get 1000?

12. Today is the third day of the week, what day of the week will it be after 42 days from now?

13. Convert 0.75kg to grams.

14. Write 3002 in scientific form.

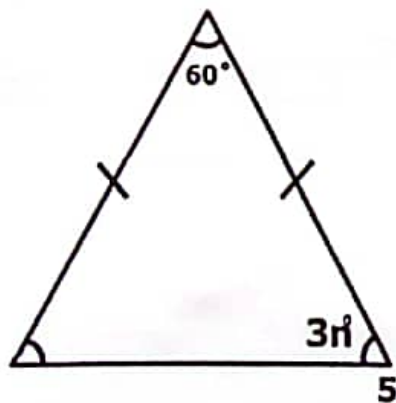15. Using a ruler, a pencil and a pair of compasses only construct an angle of 75°.

16. In a meeting, the ratio of men to women is 2:3. If there are 12 men, how many women are in the meeting?

17. Find the smallest number that can be divisible by 8 and 12 without leaving a remainder.

18. A trader bought a dozen of pens at Sh. 6000. He later sold each pen at Sh. 700. Calculate his profit.

19. Find the area of a circle whose diameter is 14cm.
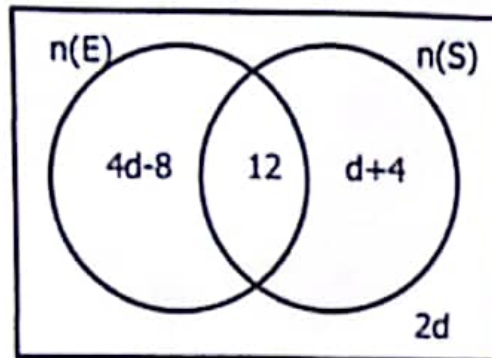
20. Study the diagram below and find the value of n.

Turn Over

SECTION B: 60 MARKS

*Answer **all** questions in this section*

Marks for each question are indicated in the brackets.

21. The Venn diagram below shows the number of pupils who like English (E) and Science (S) in a P.6 class.

(a)   If 36 pupils like English, find the value of d.   (03marks)

(b)   How many pupils are in the class?   (02marks)

22.   The following are the buying and selling rates of foreign currencies and the Uganda shillings at Bamuda forex bureau. Study it and answer the questions that follow.

Currency	Buying rate	Selling rate
One Us dollar	Sh. 3700	Sh. 3750
One pound sterling	Sh. 4850	Sh. 4940
One Rwanda franc	Sh. 4	Sh. 45

(a) A business woman had Uganda shillings 7,500,000 and wanted to get United States dollars. How much US dollars was she given? *(02marks)*

(b) If a trader had 60-pound sterlings and 90,000 Rwanda francs, how much in Uganda shillings did he get from the same forex bureau? *(03marks)*

23. A farmer collects 5400 eggs a day on his farm and packs them on trays which carry 30 eggs each. If he used a motorcycle to carry 20 trays per trip to the market, how many trips will the motorcycle make in order to transport all the eggs?
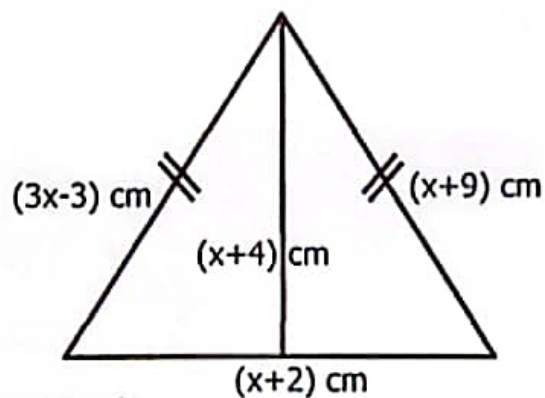*(05marks)*

Turn Over

24. (a) Solve: $m^2 - 8 = 28$ (03marks)

(b) A father is now 24years older than his son. Their total age is 34years. How old is the son now? (03marks)

25. Use the figure below to answer the following questions

(a) Find the value of x. (03marks)

(b)   Calculate the area of the figure   *(03marks)*

26.   A bus driver drove at a speed of 90km/hr. for 2hours from town A to town B. He
      continued to town C at a speed of 85km/hr. for 5 hours.

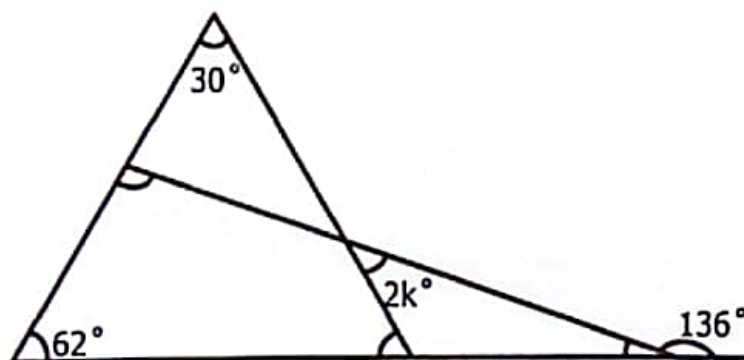   (a)   Find the total distance from town A to C.   *(03marks)*

   (b)   Calculate the driver's average speed for the whole journey.   *(02marks)*

27.   (a)   Find the value of 'k in the figure below A   *(03 marks)*

Turn Over

(b)   What is of $\frac{1}{4}$ the supplement of 60°?   *(02marks)*

28.   Using a ruler, a pencil and pair of compasses only, construct a triangle **ABC** in which line **AB** = 8cm, angle **BAC** = 45° and angle **ABC** = 60°. Drop a perpendicular line from point C to meet **AB** at N.   *(05 marks)*

29. Nekesa was given a task of transplanting a group of seedlings by Tr. Stephen. She grouped them in **6s** and **1** remained. When she decided to group them in **5s**, **4** seedlings remained. Her friend Wabwire advised her to group them in **7s** and no seedling remained.

    What could be the least number of seedlings Nekesa received from Tr. Stephen?
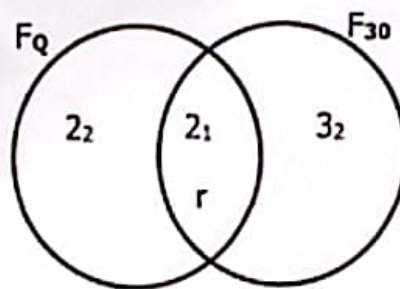
    (04 marks)

30. After spending $\frac{3}{5}$ of his profit, David remained with sh. 75,000. What was ¼ of his profit at the beginning? *(04marks)*

31. (a) Change 152_{six} to decimal base. *(02marks)*

(b) Express 123_{four} as a binary base number. (03marks)

32. The Venn diagram below shows the prime factors of Q and 30. Use it to answer the questions that follow.

(a) Find the value of r. (02marks)

(b) Work out the LCM of **Q** and **30**. (03marks)

END