TARGET EXAMINATIONS BOARD
END OF TERM 1 EXAMINATIONS – 2024
PRIMARY SEVEN

MATHEMATICS

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. Section A has **20** questions (**40 marks**)

3. Section B has **12** question (**60 marks**)
   Attempt **ALL** questions.
   All answers to both sections **A** and **B** must be written in the spaces provided.

4. All answers **MUST** be written using **blue** or **black** ball – point pen or **ink**. Diagrams should be drawn in **pencil**.

5. Unnecessary **changes** of work may lead to loss of marks.

6. Any handwriting that cannot easily be read may lead to **loss** of marks.

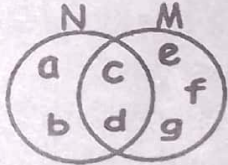7. Do not fill anything in the boxes indicated **"For examiner's use only"**.
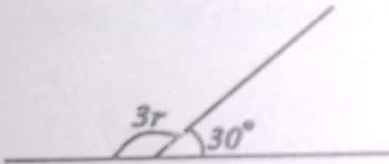
1. Subtract: 909 – 99

2. Express seven thousand nine hundred twenty four in figures.

3. During PLE seating last year, a school used 16 rooms and each room had 25 candidates. How many candidates sat for PLE in this school if all candidates did PLE?

4. Work out the sum of the place value of 5 and value of 8 in the number 86540.

5. Given that set R = {4, 6, 7, 8, 9} and T = {even numbers from 4 to 12}. Find R∩T.

6. Given the venn diagram below.

Find the complement of set N.

7. Which of the numbers below are divisible by 3?
15, 23, 42 and 19

8. Find the sum of the next two numbers in the sequence below;

6, 10, 16, 20, 26, _____, _____

9.	The distance from a class block to the school library is 240m. The distance from the headteachers office to the class block is $\frac{3}{4}$ of the distance between school library and the class block. How far is the headteachers office from the class block?
10.	Simplify: $\frac{2}{5} + \frac{1}{4}$ of $\frac{2}{3}$
11.	A candidate's school fees was sh. 150,000. If a parent paid $\frac{2}{3}$ of it, how much money was left to complete the total payment?
12.	Work out the size of angle r in the figure below.

13.	Convert 11011_{two} to base ten.
14.	A pupil scored the following marks in beginning of term exams; 60, 70, 84, 96. What was the pupil's average mark?

15.	Express 20m/sec as km/hr.

16.	A trader bought 5 school bags at sh. 140,000. At what price must he sell each bag in order to make a profit of sh. 50,000?

|			
17.	Calculate the circumference of a circular flower garden of radius 14m. (Use $\pi = \frac{22}{7}$)	**18.**	Sarah borrowed sh. 2000 from Grace. If Sarah was given sh. 2500 by her parents to pay the debt, how much money did she remain with?
19.	Solve for the value of g in; $3g - 4 = 23$	**20.**	Write 3465 in scientific notation.

SECTION B (60 Marks)

21. Out of 80 candidates who borrowed books from the library;
The number of candidates who borrowed Mathematics (M) were **three times** the number of candidates who borrowed English (E) and 20 candidates borrowed **both**.
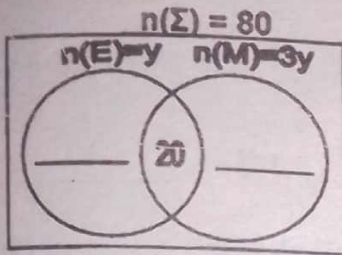
(a) Complete the venn diagram below. **(2marks)**

$n(\Sigma) = 80$

$n(E)=y \quad n(M)=3y$

_____ 20 _____

(b) How many candidates borrowed English books? **(2marks)**

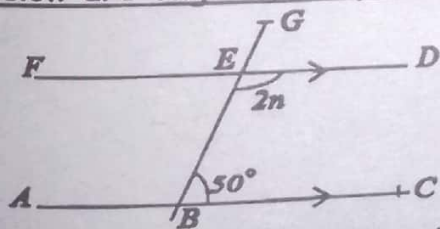(c) Find the number of candidates who borrowed **Mathematics** books only. **(1mark)**

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22. The figure below shows a shape of a classroom block.

20m
8m
y
x
4m
6m

(a) Work out the value of; **(1mark each)**
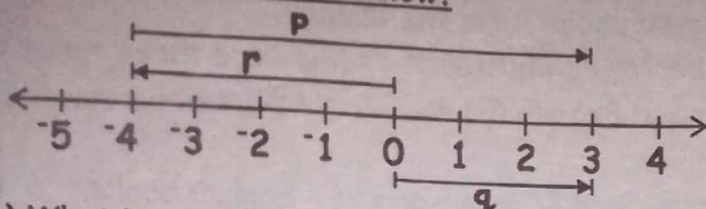
(i) x
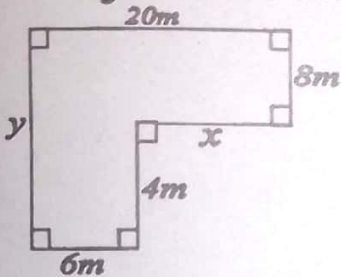
(ii) y

(b) Work out the **total distance** around the classroom block. **(1mark)**

(c) Calculate the **total area** of the **above** classroom block. **(2marks)**

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23. **Below are angles on a parallel line.**

G
F _____ E _____ D
2n
50°
A _____ B _____ C

(a) Work out the value of n in degrees. **(3marks)**

(b) Work out the size of angle **FEG**. **(2marks)**

24. Given that number line below.

(a) What integer is represented by: (1mark each)

(i) r = _____   (ii) p = _____   (iii) q = _____

(b) Write an additional Mathematical sentence represented above.   (2marks)

25. In a school there are 20% more females than males.

(a) Find the percentage of females in the school.   (3marks)

(b) If the school enrollment was 1200 pupils, how many males were there?   (2marks)

26. The table below shows the exchange rates of UGX in a forex bureau.

Currency	Buying	Selling
Kenya shillings	25	28
USA dollar	3500	3600

(a) How much UGX can one get from US$ 30?   (2marks)

(b) Rita exchanged UGX. 84,000 for Ksh. How much did she get?   (2marks)

27. During PLE 2023, the candidates' marks in a Science subject for a particular school were recorded as follows.

Scores	50	60	70	95
No. of candidates	4	4k	2	4

(a) If **twenty** candidates scored 60 marks each, find the **value** of k. (2marks)

(b) Calculate the average score of the marks. (3marks)

(c) Work out the range of the scores. (1mark)

28. During the National Music Competitions, four schools in Kampala district presented participants as follows.   (a) Find the value of x. (3marks)

Clevers' origin P/s   Buganda Road P/s $2x$ Kitante P/s $80°$ $120°$ Nakivubo Blue P/s

(b) If the total number of participants was 240, how many participants did Buganda Road P/s present? (2marks)

9. The cost of a pineapple is **twice** that of a pawpaw and a watermelon cost sh. 500 less than a pineapple. If Simwede paid sh. 13,500 for all the fruits at the market; (3marks)
(a) How much did a pawpaw cost?

(b) Find the total cost of a pineapple and a watermelon. (2marks)

30. (a) If today is Monday, what day of the week will it be after 24 days? (2marks)

(b) Solve for y: $2y + 2(y+4) = y + 14$ (3marks)

31. The sum of three consecutive counting numbers is 51. If the least number is n;
(i) Find the numbers. (3marks) | (ii) Work out their range. (2marks)

32. A dice was rolled once.
(a) What is the chance of an even number showing up? (2marks)

(b) What is the chance of a number less than 5 showing up? (2marks) | (c) Find the chance of a square number showing up. (1mark)

THE END

TARGET EXAMINATIONS BOARD
END OF TERM 1 EXAMINATIONS – 2024
PRIMARY SIX

MATHEMATICS

Time allowed: 2 hours 30 minutes

PUPIL'S NAME:..

SCHOOL NAME:..

STREAM:..

DISTRICT NAME:..

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).

3. Section B has 12 questions (60 Marks).

4. Answer all questions in both sections A and B.

5. All answers must be written in the space provided in blue or black ball point pens and ink. Only diagrams should be done in pencil.

6. Unnecessary crossing of answers will lead to loss of marks.

7. Any hand writing, which cannot be easily read, may lead to loss of marks.

8. Do not fill anything in the boxes indicated for "Examiners' use only".

1.	Multiply: $\begin{array}{r} 2\ 3 \\ \times\ 2 \\ \hline \\ \hline \end{array}$	**2.**	What is the value of 4 in 6.24?
3.	In the venn diagram, shade (M–N)'. M N	**4.**	Simplify: $\frac{1}{3} - \frac{1}{4}$
5.	Complete the sequence; 1, 4, 9, 16, _____	**6.**	Work out: $^-2 + ^-5$
7.	Convert 800grams to kilograms.	**8.**	Find the value of m in the figure below. 75° 42° m
9.	Agnes travelled from Kampala to Omoro district at a speed of 70km/hr for 6 hours. How far was the journey?	**10.**	Draw tallies to represent 17.
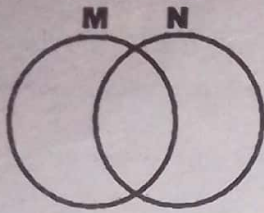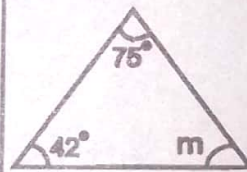
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11.	Write **XCIX** in Hindu Arabic numerals.	**12.**	Add: $\begin{array}{r} 1\ 2\ 3_{five} \\ +\ 1\ 2_{five} \\ \hline \\ \hline \end{array}$
13.	Find the Lowest Common Multiple of 18 and 24.	**14.**	Round off 3502 to the nearest thousands.
15.	Otoke got a profit of sh. 2000 after selling a pair of shorts at sh. 8500. What was the cost price of the pair of shorts?	**16.**	Simplify: $5p - 2q - 3p + q$
17.	Show the lines of folding symmetry in the figure below.	**18.**	Convert $2\frac{1}{4}$ hours to minutes.

19.	Solve for x: $2x + 3 = 15$	20.	Given that ⚬ represents 20 apples. Draw pictures to represent 90 apples.

21. In a school choir of 80 pupils, 40 participate in singing (S), 35 participate in dance (D), 12 pupils participate in both dance and singing while m participate in others.

(a) Represent the information above on the venn diagram. (3marks)

$n(\Sigma) = 80$

$n(S) = 40$ $n(D) = 35$
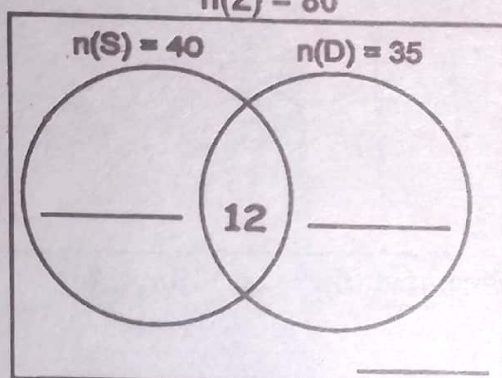
(b) Find the value of m. (2marks)

12

22. A man travelling from Kampala to Mbale at a steady speed of 80km/hr for 3hours arrived at 11:30am.

(a) At what time did he leave Kampala? (2marks)

(b) Calculate the distance between Kampala and Mbale. (2marks)

23. Abaho went shopping and bought the following items as shown below.

(a) Complete the table. (4marks)

ITEM	QUANTITY	UNIT COST	AMOUNT
Irish potatoes	3 tins	sh. 20,000 per tin	sh. _____
Meat	_____ kg	sh. 15,000 per kg	sh. 30,000
Cooking oil	$1\frac{1}{2}$ litres	sh. 7,000	sh. _____
	Total expenditure		sh. _____

(b) If he went with sh. 100,000, how much more money did he need so as not to remain with a debt? (2marks)

24. (a) Mellisa drank $\frac{3}{4}$ litres of the water she had packed to school and $\frac{1}{3}$ litres for washing hands. How much water in litres did she pack? (2marks)

(b) In the recently held elections in Omoro district, $\frac{2}{7}$ of the 3500 voters were women. How many men voted? (3marks)

**25.** (a) Expand 2673 using powers of ten. (2marks) (b) Calculate the sum of the value of 6 and the place value of 7 in the number above. (3marks)

26. (i) A juice factory in Soroti district produces 2400 bottles of juice in a day. How many bottles does the factory produce in a week? (1mark)

(ii) If 24 bottles are packed in a box. How many boxes of juice are produced in a day? (2marks)

(iii) Each bottle is sold at sh. 1500. How much money does the factory collect from each box? (2marks)

27. Use the figure below to answer questions that follow.
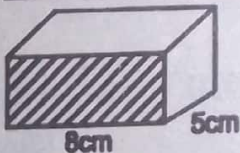
(a) Find the height of the figure if its volume is 240cm³. (3marks)

8cm   5cm

(b) Work out the area of the shaded part. (2marks)

28. (a) Using a pair of compasses, ruler and pencil only, construct a rectangle **ABCD** where line **AB** = 7cm and line **BC** = 5cm. (4marks)

(b) Measure diagonal **AC.** _____ (1mark)

29. The table below shows the marks scored by some P.6 pupils in a test.

Marks	60	90	75	80
Number of pupils	4	1	2	3

(i) How many pupils did the test?   (1mark)   (ii) What is the modal mark?   (1mark)

(iii) Work out the average mark. (3marks)

30. (a) Simplify: $5m + 3n + 2m - n$ (1mark)
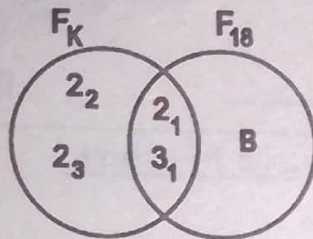
(b) Solve (i) $\frac{x}{3} = 9$ (2marks) | (ii) $5p - 3 = 12$ (2marks)

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31. The venn diagram below shows the prime factors of k and 18.

(i) Find the value of k. (1mark)

F_K F_{18}

2_2 2_1 B
2_3 3_1

(ii) Find the value of **B**. (2marks) | (iii) Work out the **LCM** of K and 18. (2marks)

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32. (a) Simplify: $\dfrac{0.4 \times 0.6}{0.2 \times 0.3}$ (3marks)

(b) Mary bought 3 heaps of 6 mangoes each. She gave 8 mangoes to her children. The remaining mangoes were shared equally among 5 other family members. How many **mangoes** did each of the other family members get? (2marks)