THE E-LEARN EXAMINATIONS BOARD

PRIMARY LEAVING MOCK

2024

MATHEMATICS

Time Allowed: 2 hours 30 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

)R 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		

Turn Over

SECTION A: 40 *MARKS*

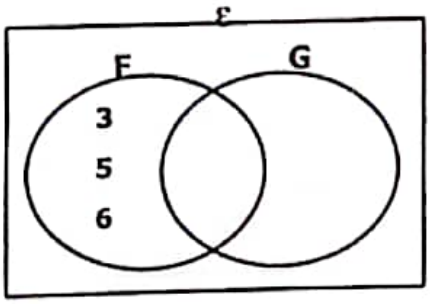
*Answer **all** the questions in this section.*

*Questions **1** to **20** carry **two** marks each.*

1. Work out $42 \div 7$

2. Write XCVI in Hindu Arabic Numerals.

3. Given that $\varepsilon = \{0, 1, 2, 3, 4, 5, 6, 7\}$, $F - G = \{3, 5, 6\}$ and $G - F = \{0, 4, 7\}$. Represent this information on the Venn diagram below.



4. Simplify: $2(5m - 3) - 4(2m + 4)$

5. Two angles ***a*** and ***b*** are complementary angles. Angle ***a*** is $(3x\text{-}20^0)$ and angle ***b*** is $(x+30^0)$. Find the value of **x**

6. Find the next two numbers in the sequence:

   1, 3, 5, 7, ..., ...

7. Kikomeko had $\frac{1}{2}$ of an apple and gave $\frac{1}{3}$ of it to Lomut. What fraction of the apple did he remain with?

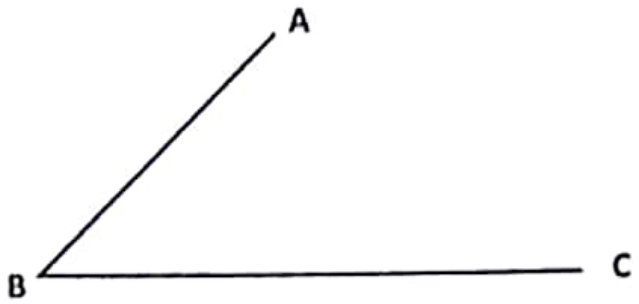
8. A pupil slept after reading notes at 10:30 p.m. and woke up at 6:00 a.m. How long did the pupil sleep?

9. Given that  represents 7 flowers. Draw pictures to represent 42 flowers.

10. Convert 4.5 km to metres.

Turn Over

11. Using a protractor, measure and name the type of angle below.



12. Decrease sh 4,800 in the ration of 4:5.

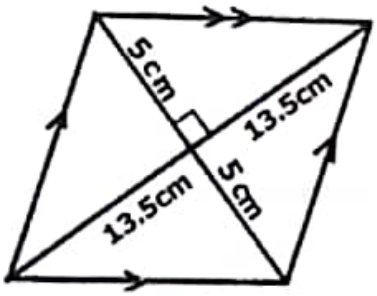
13. Simplify $-5 - {}^{-}3$

14. A P. 6 boy bought 3 exercise books at sh 10,500 and two geometry sets at sh 8,000. Which item was more expensive?

15. Electricity poles are fixed in a straight line along one side of the road. If the transformer is fixed on the 15th pole from either side, how many poles are there altogether?

16. Find the median of the numbers **7, 9, 3, 0, 7, 1** and **11**

17. Find the area of the rhombus below.



18. Akol is 8 times as old as her son. The difference between their ages is 28 years. How old is the son now?

Turn Over

19. The LCM of two numbers is 36 and their GCF is 3. If the first number is 12, find the second number.

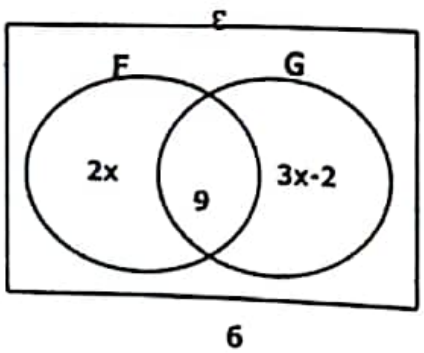
20. In an interview conducted by 6 interviewers, 5 marks were awarded for a correct response and two marks were deducted for a wrong response. How many marks were scored by an interviewee who failed 6 questions from the 20 questions asked.

SECTION B: 60 *MARKS*

*Answer **all** the questions in this section.*

Marks for each question are indicated in brackets.

21. The Venn diagram below shows the number of players who play football (F) and Netball (N) in a club. Use it to answer the following questions.



(a) If 22 players do not play football, find the value of x. *(03 marks)*

(b) How many players play football? *(02 marks)*

22. (a) The exchange rate for United States dollars to Uganda shillings is **US$ 1 to Ugsh. 3,600** and the exchange rate of Kenya shillings to Uganda shillings is **Ksh 1 to Ugsh 35**. How much does one pay for a TV set in Kenya shillings if it costs 700 US dollars? *(03 marks)*

(b) Coffee exports have risen from 15,500 tonnes per year to 18,600 tonnes. Calculate the percentage rise in coffee exportation. *(03 marks)*

Turn Over

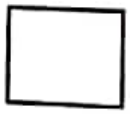
23. A worker spends $\frac{2}{5}$ of his salary on food, $\frac{1}{3}$ of the remainder on transport and the rest on both clothing and savings. He spends $\frac{1}{4}$ more on clothing than saving.

(a) What fraction of the salary is saved? *(04 marks)*

(b) If he saves sh 36,000, how much is his monthly salary? *(02 marks)*

24. (a) If today is Saturday, what day of the week was it 43 days ago? *(03 marks)*

(b) Work out 3×2 using a number line. *(02 marks)*

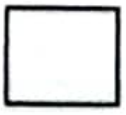


25. Jonathan left home for town at 6:00 a.m. He drove at a steady speed of 60 km/hr for $2\frac{1}{2}$ hours before stopping at the fuel station. He took 15 minutes at the fuel station and continued for the journey for $1\frac{1}{4}$ hours.

(a) If he covered a total distance of 200 km, at what speed did he drive to cover the remaining distance? *(03 mar ks)*

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

26. (a) Using a ruler, a pencil and a pair of compasses only, construct a parallelogram **PQRS** in which line **PQ** = 7 cm angle **RQP** = 135° and line **PS** = 5.5 cm *(04 marks)*



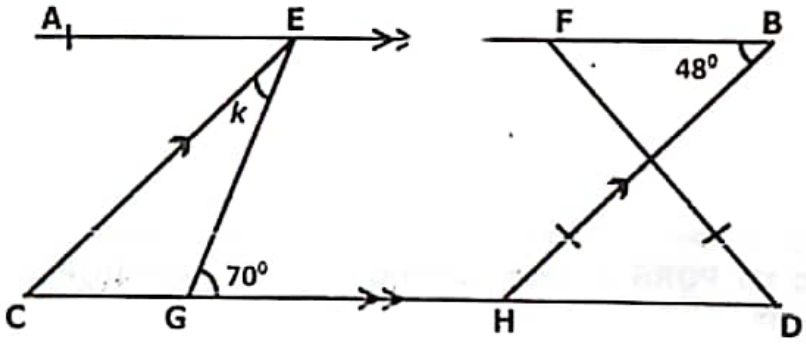
(b) Measure diagonal PR ..... cm *(01 mark)*

Turn Over

27. (a) Solve $\frac{n^3}{2} + 4 = 36$ *(03 marks)*

(b) Write the solution set for $2 > x \geq -4$ *(01 mark)*

28. In the diagram below, line AB is parallel to line CD. Angle FBH = 48° and angle EGH = 70° Study it carefully and use it to answer questions that follow.



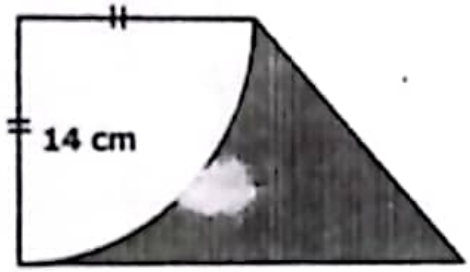
(a) Find the size of angle k. *(02 marks)*

(b) Find the size of angle EFD. *(03 marks)*

29. (a) Given that $23_m = 111_{three}$. Find the base represented by **m**. *(03 marks)*

(b) Write the place value of 3 in 2341_{five}. *(01 mark)*

30. In the figure below, find the area of the shaded part. *(05 marks)*



31. (a) The average height of six pupils is 140 cm. When two pupils join them, the average height becomes 137.5 cm. Find the total height of the two pupils who joined the group. *(03 marks)*

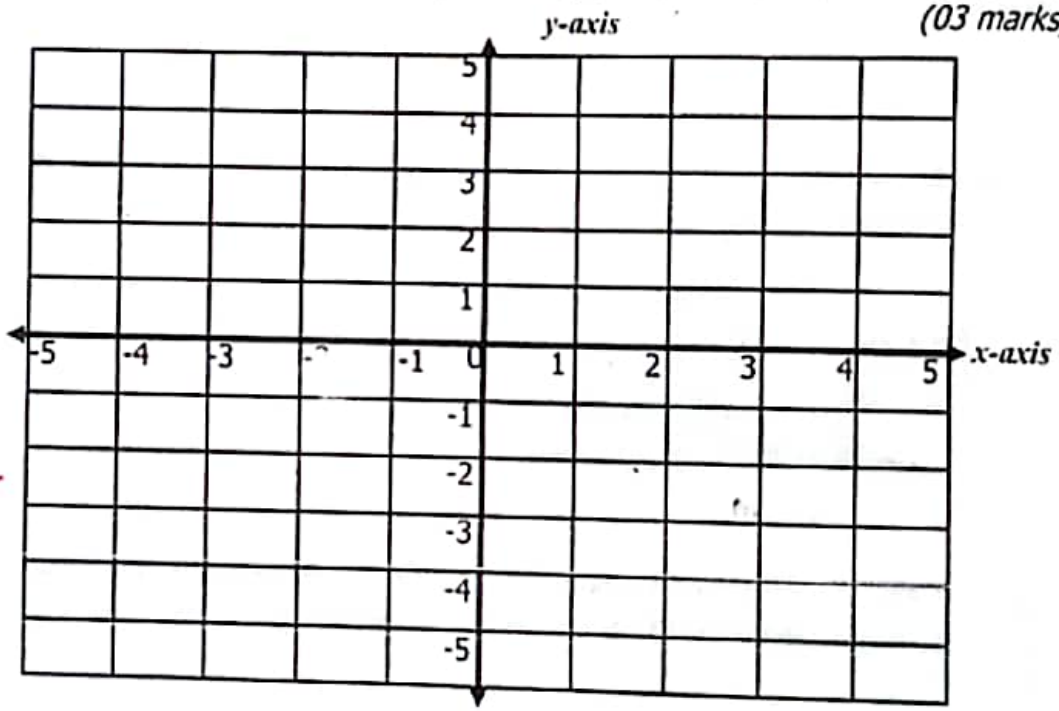
Turn Over

(b) The base of the mountain is at -5486 m below the sea level and the peak is at 4201 m above the sea level. What is the full height of the mountain?

(02 Marks)

32. (a) On the graph below, plot the points **A (0, ⁺4), B(⁺3, ⁻1) and C(⁻3, ⁻1).**

(03 marks)



(b) Join A to B, B to C and C to A.

(01 mark)

(c) Name the figure formed after joining the points

(01 mark)

END