"In Pursuit of PLE Excellency"

KUCH & ABER EDU-LOG EXAMINATIONS BOARD

PRIMARY LEAVING EXAMINATIONS 2024

PREP ONE-2024

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Index No.

Random No.						Personal No.			

Candidate's Name:.....

Candidate's Signature:.....

District ID:.....

Read the following instructions carefully

1. Do not write your **school** or **District name** anywhere on this paper.
2. This paper has two sections: **A** and **B.** Section **A** has **20** questions and Section **B** has **12** questions.
3. Answer **all** questions. **All** the working for both sections **A** and **B** must be shown in the spaces provided.
4. **All** working **must** be done using a **blue** or **black** ball point pen or fountain pen ink. Any work done in pencil other than graphs and diagrams will **not** be marked.
5. **No calculators** are allowed in the examination room
6. Unnecessary **change**s in your work and handwriting that cannot be read easily may lead to **loss of marks**.
7. Do not fill anything in the indicated: **"For Examiners' Use Only"** and those inside the question paper.

Please Turn over!

FOR EXAMINER'S USE ONLY		
QN. No	**MARK**	**SIGN**
1 - 10		
11 - 20		
21 - 23		
24- 27		
28 -32		
TOTAL		

SECTION A: 40 MARKS

Answer **all** questions in this section

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

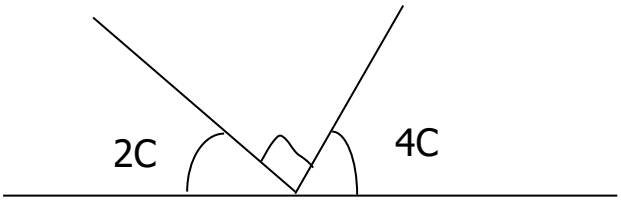
1. Work out: **40 ÷ 10**

2. Given that **Set O** = $\{2,3,5,7\}$ and set **P** = $\{1, 3, 5, 7, 9,\}$

   Find the number of subsets in **P - O**

3. Round off **9, 948** to the nearest hundreds.

4. Find the value of **C** in the diagram below.



5. What number has been expanded below

   80,000 + 200 + 6

6. Gonda bought a dozen of pens for **Sh. 6,000.** He later sold each pen for **Sh.800.** Calculate the total profit Gonda made

7. Simplify: **5 – t + 3t – 2.**

8. Write **CXI** in Hindu Arabic numerals.

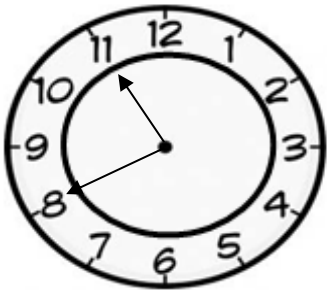
9. Subtract **909** from **1,111**

10. Simplify : $\frac{2}{5} \times \frac{3}{4}$

11. Simplify : $^{-}4 + ^{-}6$

12. In a class of **60** pupils, the ratio of girls to boys is **3: 2** respectively.
How many **more** girls are there than boys?

13. Write the time shown on the clock face below in words.



14. Using a ruler, a sharp pencil and a pair of compasses only, construct an angle of $\mathbf{45^0}$ in the space provided below.

15. Given that **a = 2** and b **= 3,** find the value of **a^2 + 2b.**

16. Sumaya bought **750g** of rice. Express this quantity in **kg**.

17. Find the integer that lies **7** steps left of $^{+}$**3**.

18. The **Lowest Common Multiple (LCM)** of two numbers is **24** and their **Greatest Common Factor (GCF)** is **4**. If one of the numbers is **8**, find the second number.

19. A dice has faces numbered from 1 to 6. Find the probability that an odd number shows up when the dice is rolled once.

20. Julia has **3 kg** of sugar to packed in $\frac{\mathbf{1}}{\mathbf{2}}$**kg** packets. How many packets will she get?

SECTION B: 60 MARKS

Answer all Questions in this section

(Marks for each Question are indicated in the brackets)

21. Musana bought the items in the table below from a shop.

Item	**Unit price**	**Amount**
½ kg of sugar	Sh. 5,600 per kg	Sh. ……..
2 packets of milk	Sh…… per packet	Sh. 3,800
……. Mangoes	Sh. 2,000 a mango	Sh. 6,000
TOTAL EXPENDITURE		**Sh ……..**

(a) Complete the table. **(04 marks)**

(b) If Musana paid **Sh. 12,500** after a discount , how much discount was she offered. **(01 mark)**

22. (a) Work out : $\mathbf{243_{five} + 114_{five}}$

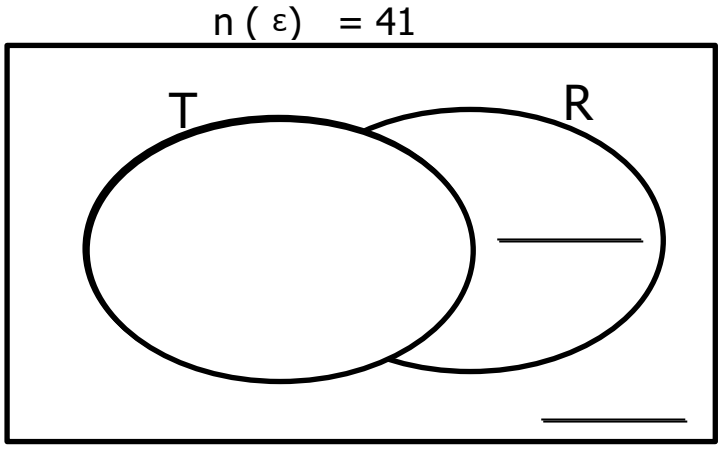
(02 marks)

(b) In the number 7,850, find the product of the value of **8** and the value of **5.**

(03 marks)

23. Out of **41** families, **14** have televisions **(T), 17** have radios **(R)** and e have both televisions and radio. **3e** do not have the mentioned items.

(a) Use the information above to complete the Venn diagram below. **(03 marks)**



(b) Find the value of **e** **(03 marks)**

24. (a) Solve for **m : 3m = 18** **(02 marks)**

(b) Malinga is 6 years older than Ajok. The sum of their ages is 26 years.

Find: (i) the age of Ajok **(02 marks)**

(ii) the age of Malinga **(01 mark**)

25. (a) A meeting that lasted **5** hours ended at **2: 00 pm**. At what time did the meeting start? **(02 marks)**

(b) Express **10 m / s** to **km /h**. **(03 marks)**

26. Pupils did a test and scored marks as shown in the table below.

Number of pupils	2	1	3	4
Marks	50	70	60	80

(a) How many pupils did the test? **(01 mark)**

(b) Find the range of the scores**.** **(01 mark)**

(c) Calculate the mean score. **(03 marks)**

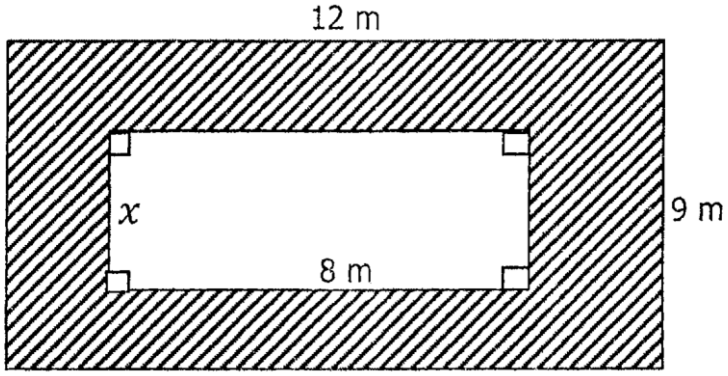
27. Out of 2**0** workers in a school, $\frac{1}{5}$ are matrons, $\frac{1}{8}$ of the remaining workers are cooks and the rest are teachers.

(a) Find the number of matrons in the school. (02 marks)

(b) How many cooks are in the school**?** (02 marks)

(c) Find the number of teachers in the school. (02 marks)

28. In the diagram below, the area of the unshaded rectangle is 40m2. Study the diagram and use it to answer questions that follow.

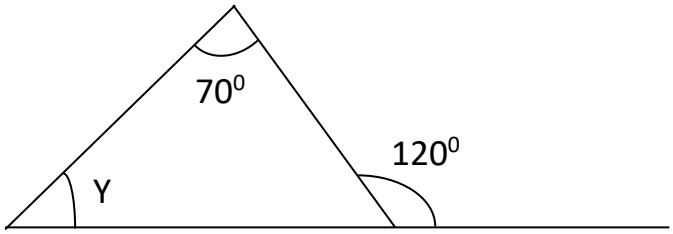


(a) Find the value of **x** (02 marks)

(b) Find the area of the shaded part. (03 marks)

29. (a) Find the complementary angle of $\mathbf{43^0}$. (02 marks)

(b) Find the value of Y in the diagram below**.** **(02 marks)**



30. The length, width and height of a rectangular tin are **20cm, 15cm** and **40cm** respectively.

(a) Find the volume of the tin in $\mathbf{cm^3}$ (02 marks)

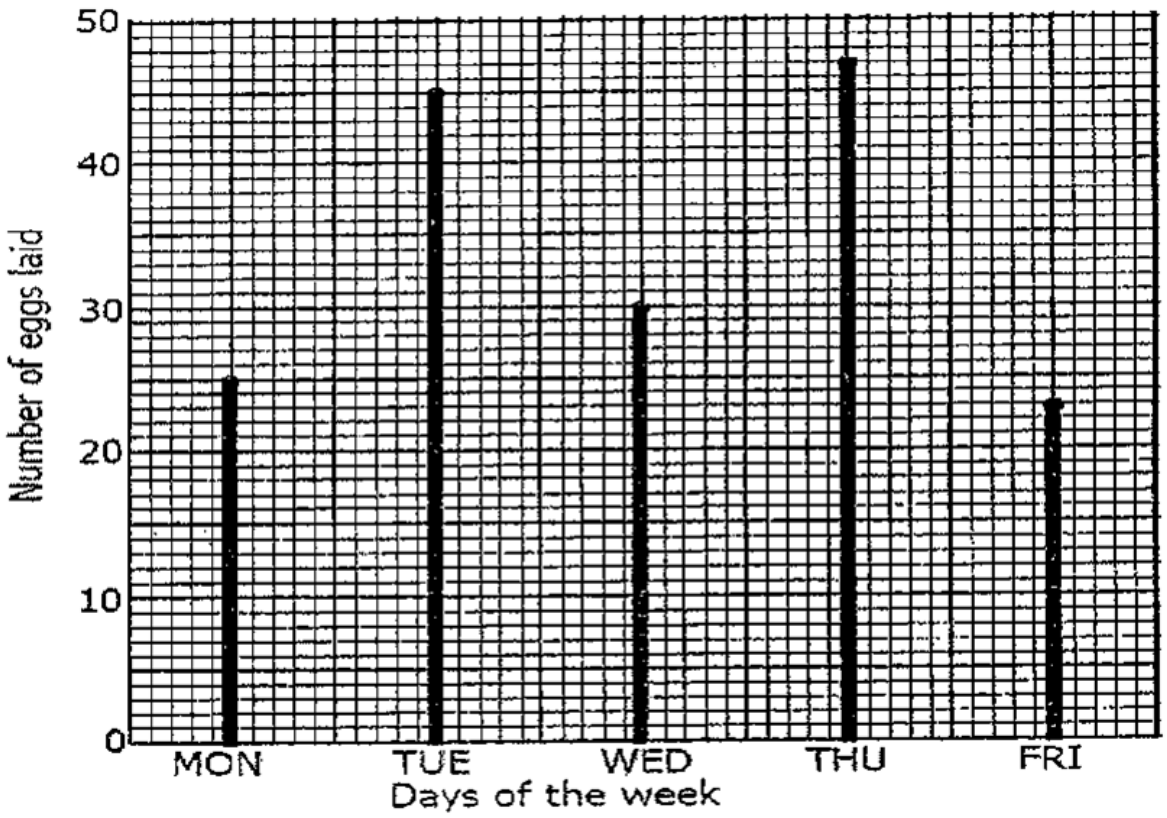
(b) Express the volume of the tin in litres (02 marks)

31. (a) With the help a ruler, sharp pencil and a pair of compasses only; construct a triangle **ABC** in which angle **ABC** is $\mathbf{60^0}$, line **AB = 6cm** and line **BC = 7.5cm**.

(04 marks)

(b) Measure angle **BCA** (01 mark)

32. The graph below shows the number of eggs laid by chicken in Wani's farm from Monday to Friday. Study and use it to answer the questions that follow.



(a) How many eggs were laid on Monday**?** (01 mark)

(b) How many more eggs were laid on Tuesday than on Wednesday?

(02 marks)

(c) Find the total number of eggs laid in the whole week. (02 marks)