

"In Pursuit of PLE Excellency"

KUCH & ABER EDU-LOG EXAMINATIONS BOARD

PRIMARY LEAVING EXAMINATIONS 2024

OMEGA PRE PLE FOUR

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 **changes** 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.

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

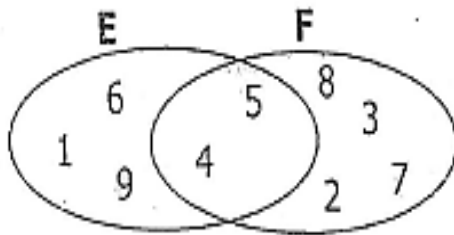
Please Turn over!

SECTION A: (40 marks)
Numbers 1 to 20 carry 2 marks each

1. Find the missing number in the box : $5 + \boxed{} = 7$

2. Write **44** in Roman Numerals.

3. In the Venn diagram below, find $n(F - E)$



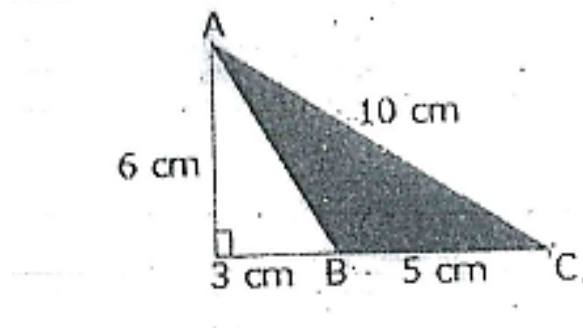
4. There are **450** pupils in a school. The ratio of girls to boys is **2: 3** respectively. Find the number of girls in the school.

5. Find the next number in the sequence below;

10, 12, 15, 20, 27, _____

6. Write **eighty thousand ninety-nine** in figures.

7. Calculate the area of triangle ABC shaded



8. Simplify: $\frac{3}{4} \times \frac{1}{3}$

9. Given that $t = 10$. Find the value of: $t^2 - 2t$

10. A motorist covered **60 km** in **30** minutes. Calculate his speed in **km/h**?

11. Below is a record of Namata's marks in daily mathematics homework.

MARKS	FREQUENCY
6	1
8	2
9	1
10	3

Find the probability that Namata scored a mark greater than 8.

12. Using a sharp pencil, a ruler and a pair of compasses only construct an angle of **75°** in the space below.


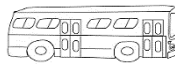
13. Round off **99,604** to the nearest thousands.

14. Ddamba bought 7 books for **Sh.8,400**. How many such books would he buy with **Sh. 14,400**

15. Simplify: $-2 - -6$

16. Maria turned clock wise through an angle of **135°**. If she was facing south, what is her new direction?

17. A filmily used **80** packets of tea leaves in a month. If each packet weighs **25** grams, how many kilograms did the family use in that month?

18. Given that  carries 32 passengers and  carries 14 passengers, find the total number of passengers carried by:



19. Work out: $(91 \div 7) - (84 \div 7)$

20. Malinga sells oranges in heaps of **3**. On a certain day, he sold **129** oranges at **Sh.2,500** per heap. How much money did he get after selling all the oranges?

SECTION B: 60 MARKS

Answer all questions in this section

Marks for each question are indicated in the brackets.

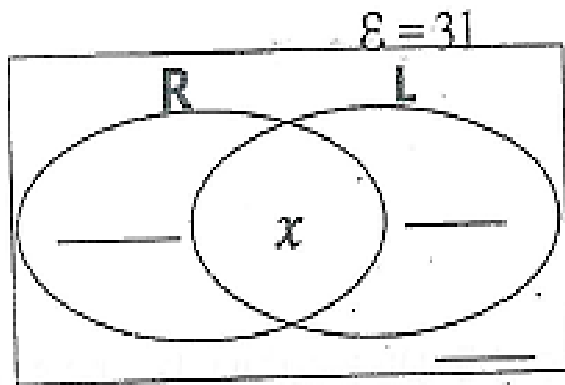
21. (a) Find the Highest Common Factor of **8, 12** and **16** **(02 marks)**

(b) Find the product of the **2nd** and the **6th** odd numbers **(02 marks)**

(c) What is the smallest number of books that can be evenly distributed among either 12 pupils or 15 pupils? **(02 marks)**

22. Out of the **31** football players in a dub, **20** use either their right leg (R) or their left leg (**L**) very well. **14** use their right legs very well, **11** use their left legs very well, **x** use both their legs very well while others use neither of their legs very well.

(a) Study the Venn diagram below and complete it. **(03 marks)**



(b) Find the value of x : **(02 marks)**

23. (a) Simplify: $3\frac{1}{4} + 1\frac{5}{6}$ **(02 marks)**

(b) Workout: $\frac{7.2 \times 0.9}{9.6 - 6}$

(02 marks)

24. Tereza went to the shop and after buying the items below she remained with **Sh.2,600**.

2 bars of soap at Sh.6,000 each bar

500 g of sugar at Sh.4,800 per kg.

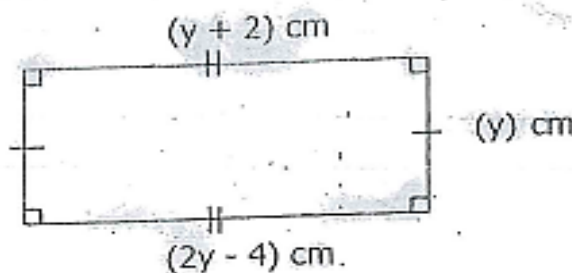
6 mangoes at Sh.2,000 for 3.

a) How much money did he spend on all the items?

(04marks)

b) Find the amount of money Tereza had before shopping? (02 marks)

25. The figure below is a rectangle. Use the information on it to answer the questions (a) and (b) that follow.



(a) Find the value of **y**

(02 marks)

(b) Find the area of the rectangle

(02 marks)

26. (a) Work out: $11_{\text{two}} \times 11_{\text{two}}$

(02 marks)

(b) Convert 21_{five} to base **two**

(03 marks)

27. (a) With the help of a ruler, sharp pencil and a pair of compasses only; construct a triangle **PQR** in which angle **PQR** = **120°**, line **PQ** = **6 cm** and line **QR** = **8 cm**

(04 marks)

(b) Measure the length **PR** = _____ (01 mark)

(c) Measure angle **QRP** = _____ (01 mark)

28. A taxi driver left town **L** for **G** at **11:30 am**, driving at a speed of **80 km/h**. The driver reached town **G** at **3: 00 pm**.

(a) Calculate the time taken by the driver from town **L** to reach town **G**. (02 marks)

(b) Find the distance between town **L** and town **G**. (02 marks)

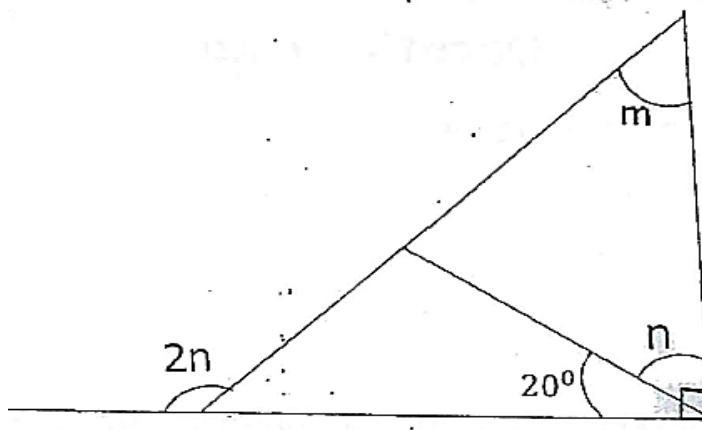
29. (a) Solve for **m**: **$4m + 1 = 4$** (02 marks)

(b) Solve for **a**: **$3(a - 2) - 2(a + 1) = 0$** (03 marks)

30. In a class of **200** pupils, there are **20%** more boys than the girls.
(a) How many more boys than the girls are in that class? **(02 marks)**

(b) Find the number of girls in that class. **(02 marks)**

31. Study the figure. below carefully and use it to answer questions (a) and (b) that follow

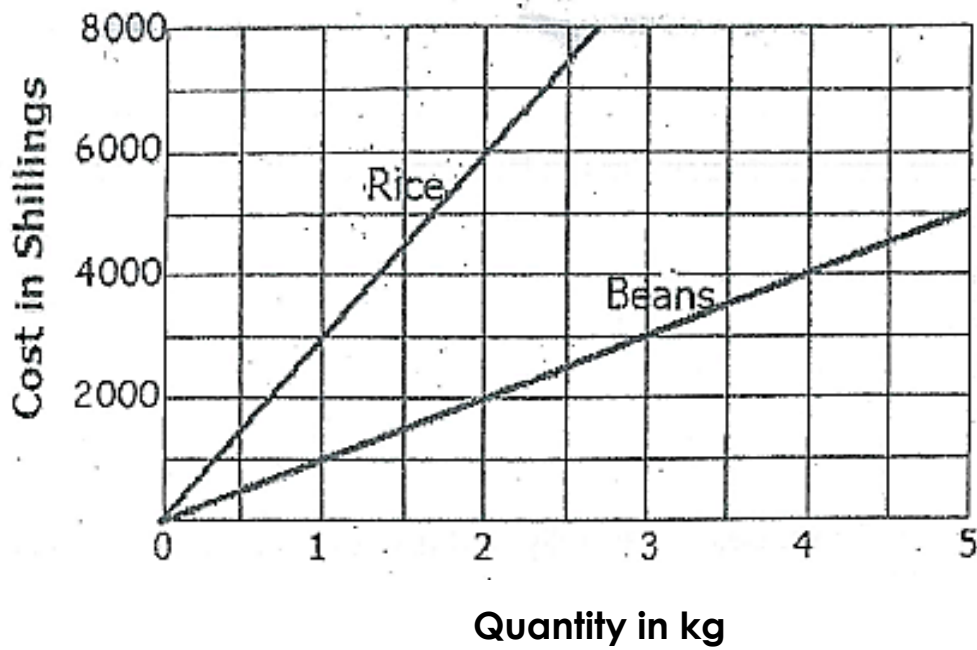


Find the size of;

(a) Angle marked **n** **(02 marks)**

(b) Angle marked **m** **(03marks)**

32. The graph below shows the cost in shillings of rice and beans in Kalanzi's shop. Study and use it to answer questions that follow.



- a) What is the cost of a kg of beans? **(01 mark)**
- b) Find the quantity of beans that one can buy with Sh. **2,500?** **(02 marks)**
- c) Find the total cost of 3kg of rice and 2kg of beans. **(02 marks)**

THE END!

