"In Pursuit of PLE Excellency"

KUCH & ABER EXAMINATIONS BOARD

PRIMARY SEVEN EXAMINATIONS 2024

PREP THREE-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: **78 - 56**

2. Solve for y: $2y = 6$

3. Write in words: **15,051**

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

5. Given that set **P** = $\{$ all prime numbers less than ten $\}$. **Find *n*(P).**

6. Work out: $\frac{3}{4} \div \frac{1}{4}$

7. Show all the lines of folding symmetry in figure below.

8. Find the value of**:** $\mathbf{10^2 + 10^0}$

9. A class debate which took 1 hour and 15 minutes ended at 12:30 pm. What time did it start?

10. Find the **Greatest Common Factor (GCF)** of **12** and **18.**

11. Using a ruler, sharp pencil and a pair of compasses only, construct an angel of 120^0 in the space provided below.

12. Write 0.24 as a fraction in the simplest form.

13. The perimeter of a regular hexagonal flower garden is 36 metres. Find the length of one side of the garden.

14. Find the product of **824** and **25.**

15. Given that $x = 2$ and $y = {}^{-}3$, find the value of $3x + 2y$

16. A goat was bought at **Sh. 50,000** and sold for **Shs. 60,000**. Find the percentage.

17. Find the range of the numbers : **-2, -7 , 0** and **3**

18. Find the square root of **196**

19. The number of proper subsets in set **K** is **15**. How many elements are in set **K**?

20. Calculate the time taken by a bus to cover a distance of **280 Km** at an average speed of **80km/h.**

SECTION B: 60 MARKS

Answer all Questions in this section

(Marks for each Question are indicated in the brackets)

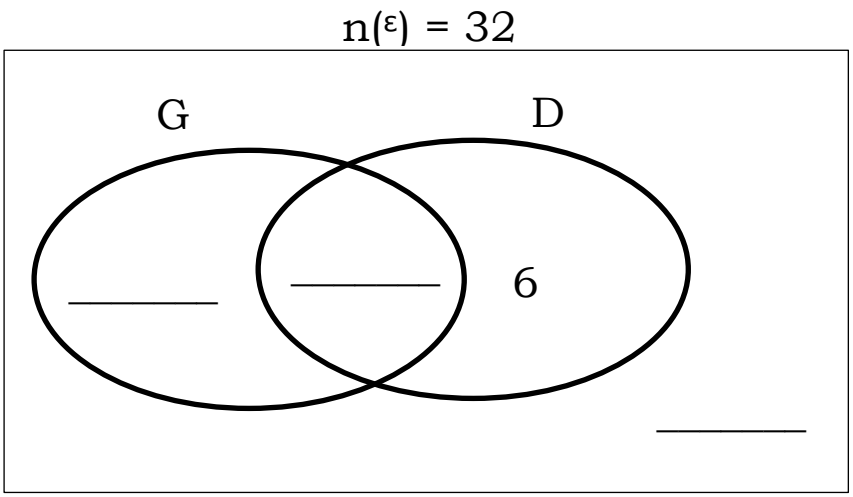
21. The sum of three consecutive odd numbers is **93**. Find the numbers.

(04 marks)

22. In a music class of 32 pupils, 13 play drums (D), x play guitar (G), 6 play only drums while 9 pupils play other musical instruments.

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

(03 marks)



(b) Find the number of pupils who play only guitar .

(02 marks)

23. a) Using a ruler, sharp pencil and a pair of compasses only , construct a triangle ABC where line **AB = 7.6 cm** , Angle **CAB = 60^0** and angle **ABC = 45^0**

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

(04 marks)

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

24. Amanda went shopping with a **20,000** shilling note. She bought the following items from a shop.

3 bottles of water Sh. 2,000 each bottle

$1\frac{1}{2}$ litres of milk at Sh. 3,000 per litre

A dozen of eggs at Sh. 1,000 for 3 eggs.

a) Calculate her total expenditure (**04 marks**)

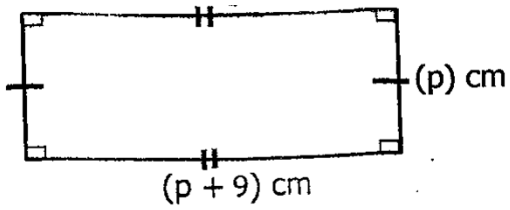
(b) How much money did Amanda remain with after buying all the items?

(02 marks)

25. (a) Express 52,000 in standard form. (**02 marks**)

(b) Work out: **(29 x 43) + (71 x 43)** (**02 marks**)

26. The figure below is a rectangle. Its perimeter is 82 cm.



(a) Find the value of **P**. (**03 marks**)

(b) Calculate the area as the above rectangle. **(03 marks**)

27. Given Nakalembe's mean score in home work exercise was 6, with scores of **4, 9, *x*, 6** and **8** .

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

(b) What is the median score? **(02 marks**)

(c) Find the probability that a score picked at random is below the mean.

(**02 marks**)

28. Apio bought 1,200 tree seedling for planting. She planted some and distributed the rest among her children, Agnes, Beatrice and Charles, in the ratio 3: 5: 4 respectively. Charles planted 240 seedlings.

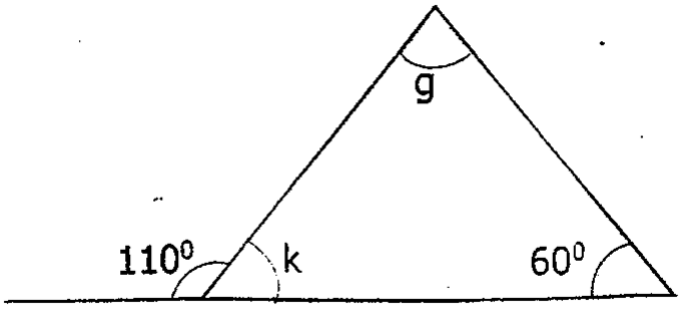
(a) How many seedlings were planted altogether by all the children? **(03 marks)**

(b) How many seedlings were planted by Apio? **(02 marks**)

29. (a) Simplify: **2 (2p – 3) – 3 (p – 1)** **(02 marks)**

(b) Solve for d: **2d – 14 = 16 – d** **(03 marks)**

30. **Study the figure below and use it to answer the questions that follow**.



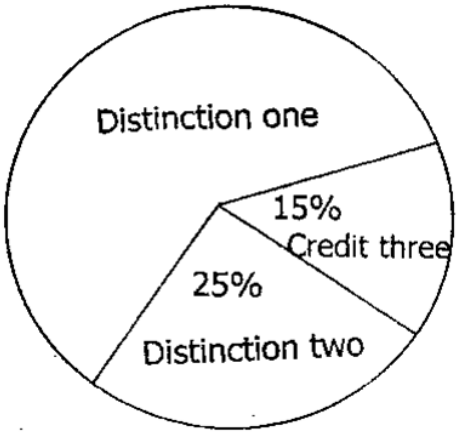
Find the size of ;

(a) Angle K **cm³** **(02 marks)**

(b) Angle **g** **(02 marks)**

31. Work out : $\frac{0.48\ x\ 0.21}{0.06\ x\ 1.2}$ **(04 marks)**

32. The pie chart below shows the mathematics performance of 80 pupils from Kigulu Primary School, as indicated by the percentages.



(a) How many pupils scored credit three? (**02 marks**)

(b) What percentage of the pupils scored distinction one? (**02 marks**)

(c) Find the total number of pupils who scored distinction one and two. (**02 marks**)

THE END