BUSHENYI DISTRICT LOCAL GOVERNMENT

PRIMARY SEVEN ENTRANCE EXAMINATION 2024

MATHEMATICS

Time Allowed: 2 Hours 30 Minutes

Name: .....

School: .....

Read the following instructions carefully.

1. This paper has two sections: **A** and **B**. Section A has **20** questions(**40 marks**) and section **B** has **12** questions **(60 marks)**
2. All the working for both sections **A** and **B** must be shown in the spaces provided.
3. All working must be done using a blue or black ball point pen or ink. Any work done in pencil other than graphs and diagrams will not be marked.
4. **No calculators** are allowed in the examination room
5. Unnecessary **changes** of work may lead to **loss of marks.**
6. Any handwriting that cannot be easily read may lead to **loss of marks.**
7. Do not fill anything in the boxes indicated:"**For Examiner's Use Only"** and those inside the question paper.

"For Examiner's Use Only"		
Qn. No.	Marks	Examiner's No.
1 – 5		
6 – 10		
11 - 15		
16 – 20		
21 – 22		
23 – 24		
25 – 26		
27 – 28		
29 – 30		
31 – 32		
TOTAL		

SECTION A: (40MARKS)

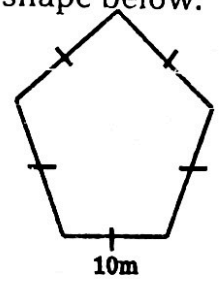
1. Work out: 43 + 54.

2. Write in figures: six thousand, ninety seven.

3 Simplify: $^{+}6 + {}^{-}2$

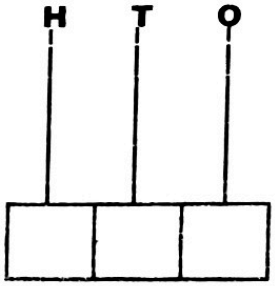
4 Given that set K = {b,u,s,h,e,n,y,i } and set M= (b,u,y,i,n,g). Find n(MUK)

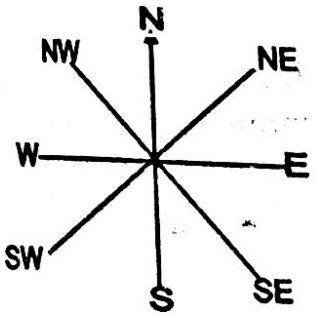
5. Find the distance around the shape below.



6. Find the next number in the sequence.

6, 7, 10, 16, _____

7.	A bus can carry **69** passengers per trip. How many passengers can it carry in **five trips**?	10	Simplify: $\frac{8}{9} - \frac{2}{9}$
8.	In the space below, draw tallies to represent **27 cars.**	11.	Draw beads to represent **634** on the abacus below 
9	How many days are in the last three months of the year?	12.	Change $2\frac{1}{4}$kg to grammes.

13.	Given that $m = 13$ and $y = 17$, find the value of $\frac{m + y}{2}$	16.	Find the lowest common multiple (LCM) of 9 and 12.
14.	Find the next two equivalent fractions for $\frac{3}{4}$.	17	A parent bought 8 exercise books at sh. 700 per book. How much money did the parent spend?
15.	Using a ruler, a pencil and a pair of compasses only, construct an angle of 90^0 in the space below.	18	Find the size of the bigger angle formed between North West and East directions. 

19. A pupil scored the following marks in a series of mathematics tests; **78, 95, 82, 90** and **85**. Calculate the pupil's average mark.

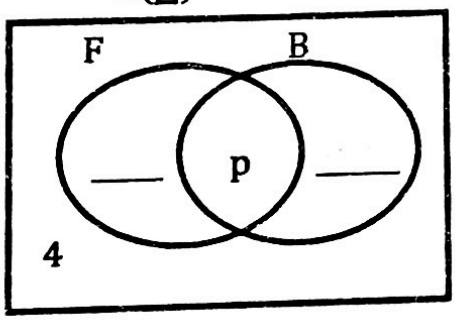
20. Show the time **"twenty minutes past eight"** on the clockface below.

SECTION B. (60 MARKS)

21. In a Primary Six class of 52 pupils, 27 like beef (B), 22 like fish (F), p pupils like both beef and fish and 4 pupils dont like any of the two dishes.

(a) Use the above information to complete the venn diagram below. (02marks)

$n(\Sigma) = 52$



(b) Find the value of p. (02marks)

(c) Find the propability of choosing a pupil who likes one kind of dish only to be the class representative. (02marks)

22 (a) A stool has 3 legs. How many such stools have 504 legs? (02marks)

(b) Workout: (27 x 7) + (3 x 27). (02marks)

23 Study the price list below and answer the questions that follow.

Item	Price
• Soap	Sh. 3500 a bar
• Sweets	Sh. 1000 a pair
• Soda	Sh. 1000 a bottle
• Cakes	Sh. 500 a cake

Calculate Musa's total expenditure if he bought the following items.

3cakes, 2 bars of soap,

6 bottles of soda, 7 sweets.

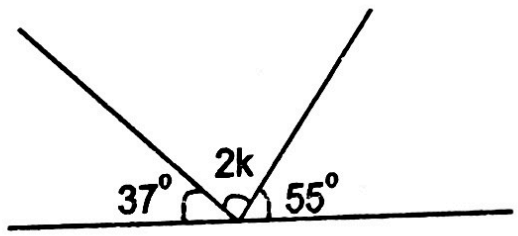
(05marks)

24 In a village of 630 people, $\frac{3}{7}$ are males and the rest are females.

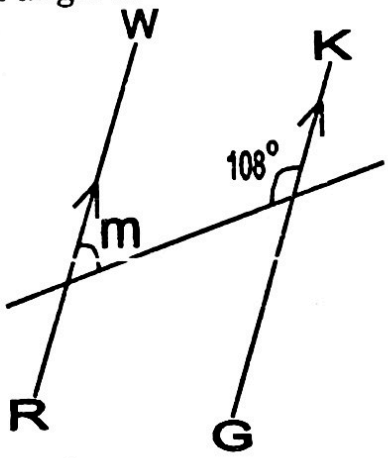
(a) How many females are there? (02marks)

(b) Given that $\frac{5}{9}$ of the males and $\frac{7}{12}$ of the females in the village are children, how many children are there? (03marks)

25. (a) In the diagram below, find the value of k in degrees. (03marks)



(b) In the diagram below, line RW is parallel to GK. Use it to find the size of angle m. (02marks)



26. The sum of **two** consecutive counting numbers is **41**. Find their product. **(05marks)**

27 Wyclif, Wisdom and Warren shared 85 goats in the ratio 6:4:7 respectively.

(a) How many goats did each get? **(04marks)**

(b) Find $\frac{2}{5}$ of Warren's share. **(01mar**

28. (a) Using a ruler, a pencil and a pair of compasses only, construct a rectangle REAM such that $\overline{RE} = 7cm$ and $\overline{EA} = 4cm$. (04marks)

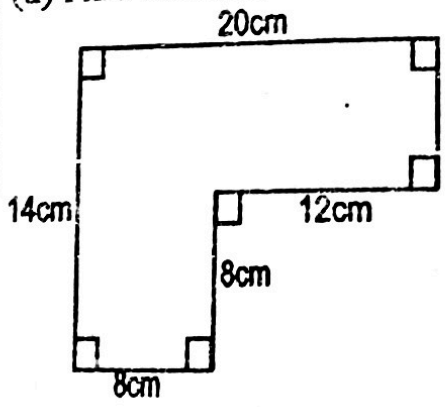
(b) Measure its diagonal EM. (01mark)

29. A motorist left town **W** at **9.30am** and reached town **Z** at **12.00noon** covering a distance of **180km**.

(a) Find the time taken by the motorist to travel from town **W** to town **Z**. (02marks)

(b) Calculate the motorist's speed for the journey in kilometres per hour. (03marks)

30. (a) Find the area of the shape below. (03marks)

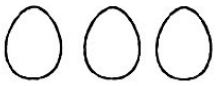
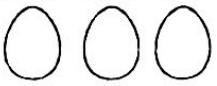


(b) How many **40cm** pieces can be cut from a **2** metre wire? **(02marks)**

31. (a) Solve: $\frac{p}{7} = 5$ **(02marks)**

(b) A father is **four** times as old as his son. If their total age is **50years**, how old is the father? **(03marks)**

32. The pictograph below shows the number of eggs sold by **Mr. Kato** last week. Use it to answer the questions that follow.

Mon	
Tue	
Wed	
Thur	
Fri	

(a) Given that **Mr. Kato** sold **80** eggs on Friday, how many eggs does each picture represent? **(02marks)**

(b) On which days of the week did Mr. Kato sell the same number of eggs? **(01mark)**

(c) How many eggs did Mr. Kato sell last week? **(02marks)**

-End-