WAKISO DISTRICT JOINT EXAMINATIONS BOARD
(WAKISO MAIN, KIRA, MAKINDYE AND NANSANA MUNICIPALITY)
PRIMARY SEVEN INTERNAL ASSESSMENT
2024
MATHEMATICS
Time Allowed: 2 hours 30 minutes

Index No.	Random No.						Personal No.		

Candidate's Name: ....

Candidate's signature: ....

School Name: ....

District/Municipality: ....

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO
Read the following Instructions Carefully:

1. This paper has two sections A and B.
2. Section A has 20 questions (40 marks).
3. Section B has 12 questions (60 marks).
4. Answer all questions. All the working for both sections A and B must be shown in spaces provided.
5. 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.
6. No calculators are allowed in the examination room.
7. Unnecessary changes and crossings in your work and handwriting that cannot easily be read may lead to loss of marks.
8. Do not write anything in the boxes indicated "For examiners' use only"
9. Write your name on all pages.

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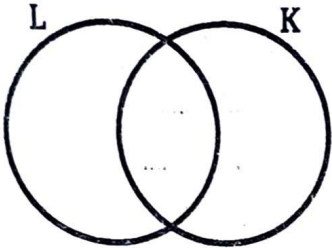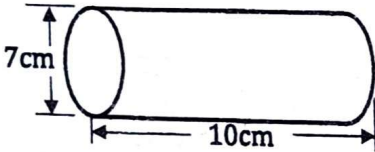
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SECTION A (40 MARKS)

1.	Work out: $12 \div 3$	2.	Express CXLV in Hindu Arabic numerals.
3.	In the diagram below, shade only the region that represents K.	4.	Write in figures: Two and two thousandths.

5. Find the volume of the cylinder below. $\left(use: \pi = 3\frac{1}{7} \right)$

7cm

10cm

6. Find the next two numbers in the sequence below.
22, 20, 17, 15, 12, _____ , _____

7. In a dairy, the cost of a litre of milk decreased from shs. 3,000 to shs. 2,400. What was the percentage decrease?

8. Workout: $2121 \div 7$

9.	A school has 11 male teachers and 7 female teachers. What is the probability of a female teacher chairing a staff meeting?	10.	Solve: $4(5p - 8) = 48$

11.	A taxi travelling from Jinja to Wakiso arrived at 16:45 hours. If it took 2 hours and 15 minutes travelling, at what time did it leave Jinja for Wakiso? (give time in 12 hour clock system)

12.	Write 0.049 in standard form.

13.	A money lender gives a simple interest of 9% per week. What will be the interest on shs. 161,000 for 4 days?

14.	The exterior angle of a polygon is 72^0, name the polygon.	15.	Find the mean of $(7p - 4)$, 19 and $2p$

16.	The number of proper subsets in set **K** is 63. Find $n(k)$

17.	Using a sharp pencil, a pair of compasses only, construct an angle of 105^0 in the space provided below.

18.	Work out the product of the 5th and the 8th composite number.	19.	It is July now, which month of the year was it 114 months ago?

20.	In a line of vehicles, a lorry is the 7th from one side of the line and it is the 13th from the other side of the line. How many vehicles are in the line altogether?

SECTION B (60 MARKS)

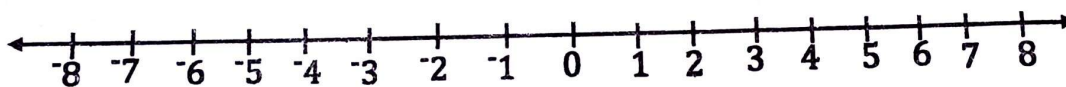| 21. (a)	Arrange the following integers in descending order. ⁻8, +2, ⁻4, 0, +4, ⁻1, +3 (2mks)	(b)	Use >, < or = to complete the statement below correctly. ⁻9_____ +9 (1mk)

(c) Workout 4 x ⁻2 on the number line below.
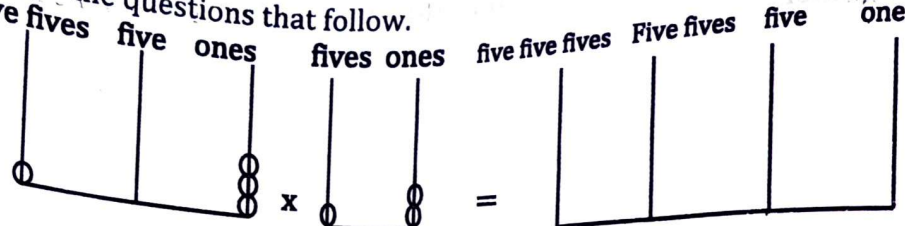

<div align="right">(2mks)</div>

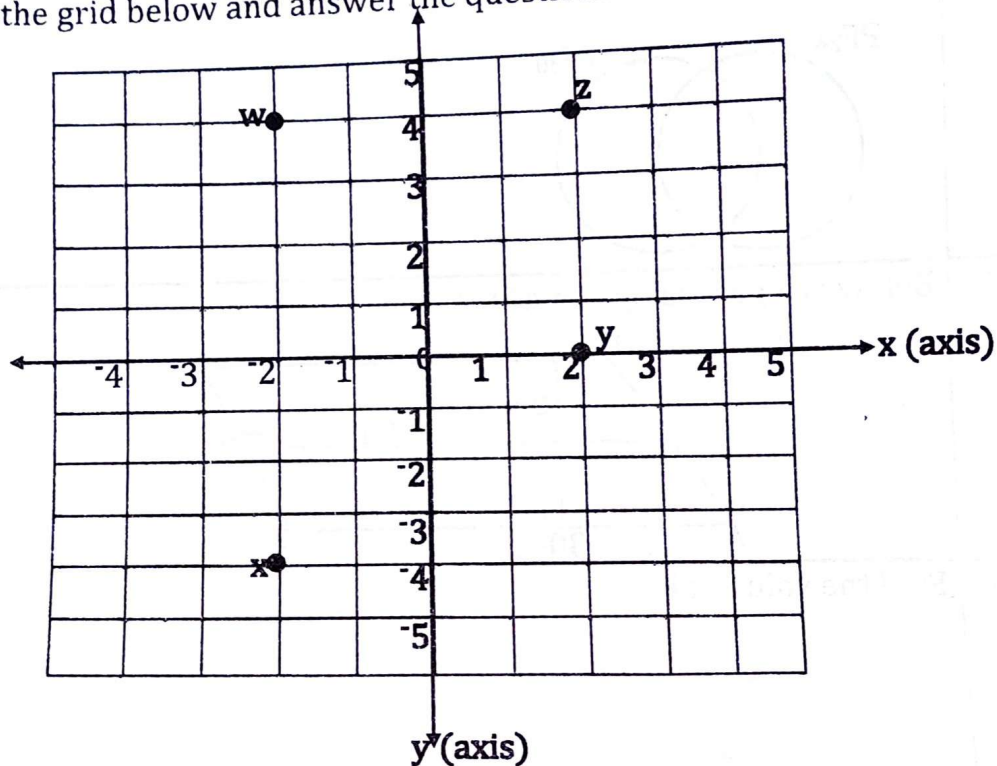| 22. (a)	1 US dollar = Ug shs 3500 and 1 Kenyan shilling (Ksh) = Ug shs 35 Opio has 28 US dollars and 148 Kenyan shillings. How much money in Ugandan shillings does he have? (3mks)
(b)	If a shirt costs Ksh. 40,000, what is the cost of the shirt in US dollars? (2mks)

23. Below is multiplication of two numbers in base five on abacus. Study and answer the questions that follow.

Five fives   five   ones   fives ones   five five fives   Five fives   five   ones

(a) Write down the multiplication number shown on the abacus.

(2mks)

(b) Workout the multiplication and show the answer on the third abacus.

(3mks)

24. In a farm there are 12% less sheep than goats. If there are 77 sheep, how many animals are in the farm altogether?

(5mks)

25
(a) Irene is 10 years old, Sarah is 30 years old.
After how many years will Sarah's age be twice Irene's age?

(3mks)

What will be their total age by then?

(2mks)

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26. Study the grid below and answer the questions that follow.

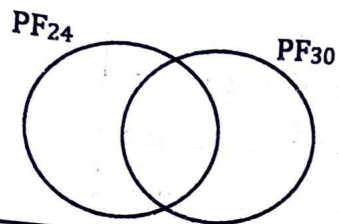| (a)	Name the point	(b)	Join the points to form a geometrical figure and workout its area if 1 square represents 1dm.
	(i) **w**		
	(ii) **y**		
	(2mks)		(3mks)

27. (a) Express the following numbers as products of their prime factors and write the answers in set notation.
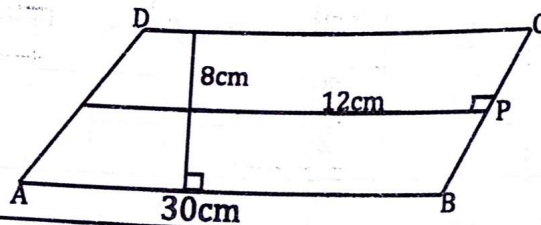
(i) 24

(ii) 30

(1mk each)

(b) Show the factors on the Venn diagram below.

PF$_{24}$ PF$_{30}$

(3mks)

28. Below is a parallelogram ABCD.

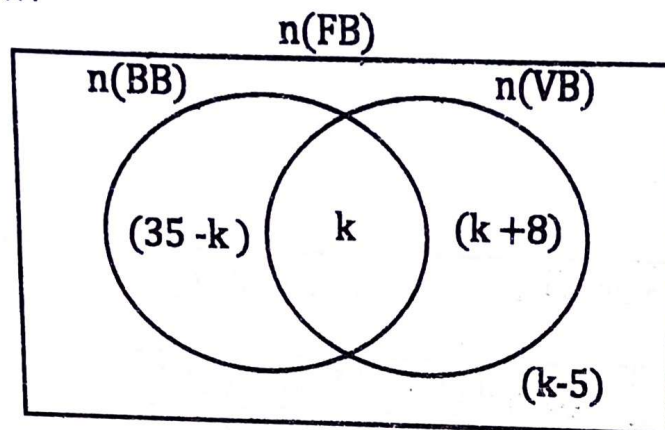(a) Find the value of **P**.

(3mks)

(b) Work out the perimeter of the parallelogram **ABCD**.

(2mks)

29. During an oral interview, Mr. Kihene awarded 5 marks for every correct answer given and deducted 2marks for every wrong answer given. If he asked 24 questions and Amutos got 43 marks, how many wrong answers did Amutos give?

(5mks)

0. The Venn diagram below shows a school team of players who play football (FB), basket ball (BB) and volley ball (VB). Study it and answer the questions that follow.

n(FB)

n(BB)   n(VB)

(35 - k)   k   (k + 8)

(k-5)

(a)	If 17 players do not play basket ball, find the number of players who play all the three games.	(b)	How many players are in the school team?
	(3mks)		(2mks)

31. Using a ruler and a pair of compasses only, construct a rhombus PQRS in which $\overline{PQ}$ = 6cm and angle SPQ = 60^0

(4mks)

(b) Measure diagonal SQ.

(1mk)

32. Below is Tr. Kapisa's shopping list. Study and complete it correctly.

ITEM	QUANTITY	UNIT COST	AMOUNT
Milk	2 litres	Shs. 1200	Shs. _____
Salt	500gm	Shs. _____	Shs. 1500
Posho	_____ kg	Shs. 3000	Shs. 4500
Soap	3 bars	Shs. _____	Shs. _____
TOTAL EXPENDITURE			Shs. 20,400

(5mks)

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