## WAKISO DISTRICT JOINT EXAMINATIONS BOARD

"DAL THE SEE FOR

(WAKISO MAIN, KIRA, MAKINDYE AND NANSANA MUNICIPALITY)

#### PRIMARY SEVEN INTERNAL ASSESSMENT

2023

#### MATHEMATICS

Time Allowed: 2 hours 30 minutes

Index No.	Ranc	lom No.		P	ersonal	Vo.	
A IN							
Candidate's Name:	X /					*********	 ******
Candidate's signature:		CON				`````	 
School Name:	- V	SIVF	712	100	Woll	i	 
District/Municipality:							 

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

- This paper has two sections A and B.
- 2. Section A has 20 questions (40 marks).
- 3. Section B has 12 questions (60 marks).
- Answer all questions. All the working for both sections A and B must be shown in spaces provided.
- 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.
- No calculators are allowed in the examination room.
- 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"

USE ONLY

	USE ONLY	
Qn. No	Marks	EXR'S NO
-1-5		
6-10		
11-15		
16-20		
21-22		
23-24		
25-26		
27-28		
29-30		
31-32		
TOTAL		

ORGANISED AND PUBLISHED BY:

WA.D.E.B

# SECTION A (40 MARKS)

Answer all questions in this section.

2. Write 49 as a Roman Numeral.

1.	Add: 3.7 + 2.
	0
	3.7
	+ 2.3
	6.0

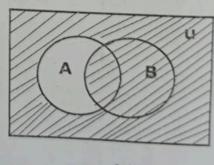
3. Subtract: 
$$\frac{1}{2} - \frac{1}{4}$$

$$\frac{1}{2} - \frac{1}{4}$$

$$(\frac{1}{2} \times \frac{8}{8}) - (\frac{1}{4} \times \frac{8}{8})$$

$$\frac{4-2}{8}$$

6. Describe the shaded region in the Venn diagram below.



(A-B)'

5.

7.	Factorize	completely:	4ap	- 2a	Ī
0.000					ш

2xa (2p-1) 2a (2p-1) ap 9 2P

Simplify: 
$$-9 - ^{+}4 =$$
 $-9 - (^{+}4)$ 



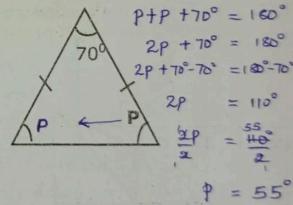
8.

10. Given that a=2, b= "4. Find the value of 3a - b.

$$(3xa) - (b)$$
 $(3x2) - (-4)$ 
 $6 + 4$ 
 $10$ 

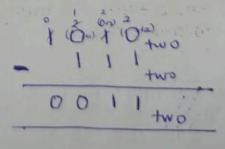
110	1111 111	JVV:				
Mun	Tue	Wed	Thur	Fri	Sat	Sun
1	2	3	4	5	6	0
4-	+ 102		- (me			
10	06		_ (mo			
10	6-7	the state of the s	15 rem			
	06	= 1	(mod .	1)		
	1 102	= 1	(mod	7)		
1+	will	b	e 1	Mono	lar	

Find the size of the angle 12. marked P in the figure below.



Round off 246.8 to the nearest 14. Subtract: 1010two- 111two 13; whole number.

Whole	1/1,	Decimal fraction
246		8



S-MIN

15.	When $\frac{1}{9}$ of the pupils in a class
	are absent, 32 pupils are present. Find the number of pupils in the class.
State of the	

pupils in cir	C 0,000.
Fraction of	popile
present.	11 8 ports -> 32 papels
1-4	1 part > 32 tupils
9-1	Ipart > 4 pupils
9-00	about > dxt bodyp
8/9	→ 36 pupils
	36 popils are in class.

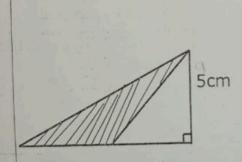
6	A school bursar deposited a
٥.	bundle of twenty thousand
	shilling notes numbered from
	BR2854600 to BR2854799
	consecutively. How much
	consecutively. How mach
	money did the bursar deposit?
	Number of notes. I Amount o

money did the bars
Humber of notes.
(LR-FR)+1
BR 2854799
-BR 2854600
0000199+1
199+1
200 notes
A STATE OF THE PARTY OF THE PAR

5	at debosic:
1	Amount of
	money!
	Inste > \$ 20,000
	200 mtes - Sh. 20000 x 20
	> ch . Habbabo
1	The bursan .
	deposited of 4000,000
1	

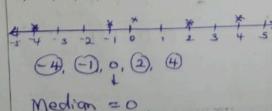
$$Iml = \frac{1}{1000}$$
 litre

The area of the shaded triangle is  $20cm^2$ . If the height of the triangle is 18. 5cm, find the length of the base of the shaded triangle.



$$1 \times b \times b = Area$$
 $1 \times b \times 5cm = 20cm^2$ 
 $2 \times b \times 5cm = 20cm^2 \times 2$ 
 $2 \times b \times 5cm = 20cm^2 \times 2$ 
 $2 \times b \times 5cm = 20cm^2 \times 2$ 
 $2 \times b \times 5cm = 40cm \times cm$ 
 $3 \times 5cm = 40cm \times cm$ 

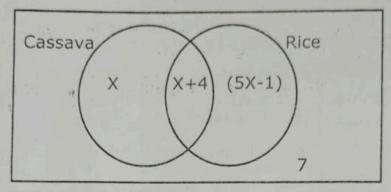
Find the median of the 19. following integers. 4, -1, 2, 0, -4



Simplify: 
$$3^2 \times 3^5$$
  
=  $3^2 \times 3^5$   
=  $3^{15}$   
=  $3^{15}$   
=  $3^{15}$   
=  $3^{15}$   
=  $3^{15}$   
=  $3^{15}$   
=  $3^{15}$   
=  $3^{15}$   
=  $3^{15}$   
=  $3^{15}$ 

### SECTION B (60 MARKS)

21. The venn diagram below shows the number of farmers who grow different crops in a community farm.



(a) If 24 farmers grow cassava, find the value of X.

$$X + x + 4 = 24$$
 $2x + 4 = 24$ 
 $2x + 4 = 24 - 4$ 
 $2x = 20$ 

X = 10

<u> </u>	2,		
How many fa Cassava only	rmers grow only + Rice only	y one crop?	59 farmers
( ×	+ 5x-1)		
10	+ (5x10)-1	-farmers	
10	+ 50-1	farmers	

- 22. Mukasa has two children, Kigongo and Kityo. If Kigongo is half his age, Kityo is a third his age and the total age of the two children is 30 years.
- (a) How old is Mukasa?

  1et Mukasa's age be k

  Kigongo Kityo fotal 3k + 2k = 180 years

  2k 3k 30 years

  5k = 160 years

  5k = 160 years

  5k = 36 years

  4x x x x + 1x = 30 x 6

  Mukasa is 26 years

  Mukasa is 26 years

(2mks)

(b) How old is the younger child?

Kityo is athird his age.

(3 x 36 years)

12 years

The younger child is 12 years and

(1mrk)

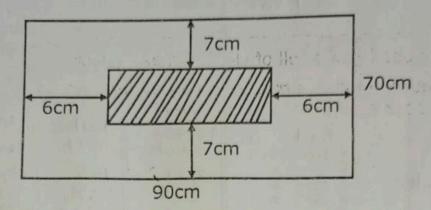
(3mrks)

(b)

23.	Shanitah went to the market and bought the following items.						
1	The state of the s						
	(i) $3\frac{1}{2}$ Kg of rice in half kg packets at shs. 1,900 @ pack						
	(ii) 3kgs of meat at shs. 14,000 @ kg.						
	(iii) 12 tomatoes at shs. 500 for every 4 tomatoes.						
	(iv) $2\frac{1}{2}$ Kg of sugar at shs. 12,500/=						
(a)	Calculate the total amount she spent on all the items.						
(-)							
	1kg -> sh. 1900x2 1kg at sh. 4000 Atomaties at 4.500 Sh. 13,300						
	4 4 2 5 5 6						
	32kg at shows2 sh. 14000  12 tomortoes						
	Sh. 3-300 X123 + 11.						
HE!							
	Sh. 13,300 Sh. 1,500						
(1-)	(5mrks)						
(b)	If she was given change of shs.700, how much money did she take						
1000	to the shop?						
N-I	10.61300						
	+ sh. 700						
13.	sh 70,000						
1	the contract of the contract o						
4777	(2mrks)						
24.	Using a ruler, pencil and a pair of compasses only, construct a						
	triangle LMN. Where angle LMN=60°, line MN= 7cm, and angle						
	MNL= 45° in the space below. Accurate shape						
12 4	Sketch.						
	X						
	4						
17(3)							
11-71	166 45						
34-1-3	m 7cm N						
10	M 160° 45°						
	M 7cm N (Amrks)						
WA.D.	(TILLE)						
WA.D.	E.B INTERNAL ASSESSMENT P.7 MATHEMATICS 2023 PG5						

(b)	Measure line LM			
Maril .	5.1 cm			
	The second second second		(1mr	k)
25.	A tailor used $\frac{3}{8}$ of a roll of cloth in n	naking jackets an	$10^{2}$ of the	Be district
	A canor used 8 of a roll of cloth in in	inaking jackets an	5 or troc How	
	remainder in making trousers. He was long was the roll of the cloth at firs	+2	19 metres, now	
	the last the following for I Fraction for I Fraction	tion   traction	Length of "del	
	Jackets > 3/8 Fraction for Fraction for SP	ent. left	3 parts -> 9 metre	
	Remainder 2×5 8	+4 1-5	I fant -> 93 metro	
	1-3,		19017 3 metre	
The state of			8 parts 7 8×3 me	
	<del>8-3</del> <del>8</del>	8 8	8 parts -> 24 metr	· t
1 0		3/8	The roll of the cl	
	58 4	8 (3)	was 24 retro	
26.	1.8 × 4.8 (b)	Express 0.1333.	as a	
20.	Workout: $\frac{1.8 \times 4.8}{0.8 \times 5.4}$ (b)	fraction in its lov	20 422	method 2
-	(1.8 x 4.8) ÷ (0.8 x 5.4)	let the fraction b	$K = \frac{12}{90}$	
		KX10 = 0.1333	10	0113   011
=	(18 x 48) + (8, x 54)	lok = 1.33:	W - 2	13-1
	10 × 48 × 10 × 10	10K-K = 1.333	-0:133	100-10
	= 18 × 48 × 10 × 10 × 10 × 10 × 10 × 10 × 10 × 1	9K = 1.2		12 + 6
	= +8 × +8 × +0 × +0 × +0 + +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +	9KX10 = 1.2 X10		90 %
	= # # 8, 34	90K = 12		2
1 1	= 2	190K = 12		15
LAN	= 2 (3mrks)	, 90 90	1 (Sillis	(s)
27.				
1	walked the distance at 5km/hr. Ali together at 11:00a.m. At what time			
1 27	Duration for 11 Distance 1 Time tak	11 10 10-	o II Alis Garting.	
	Moses Goverd by Ali	43	ST = ET-D	uvatro
ALT:	D=5x1 T=D+S	. I have = 60 mg	10 60	· (a)
	11:00 = 5km x 5h = 25km;		min   ++	
	-6:00 = 25km = 25km	xih =40mi		a.m
	5:00	15 km I hour 40 mi	Ali etentes	1) at 9:20 am
XXY A	D.E.B INTERNAL ASSESSMENT			)
WA.D.E.B INTERNAL ASSESSMENT P.7 MATHEMATICS 2023 (PG6)				

A piece of cloth is laid on a table 90cm long and 70cm wide as show 28. in the figure below. The area covered by the piece of cloth is shaded



Find the length and width of 28 (a) the piece of cloth.

> width Length 90cm-6cm-6cm 84cm-6cm 63cm-7am 78cm

Find the area of the table which (b) is not covered with a piece of cloth.

Area of table Lxw 90am x 70am 6,300 cm2 Area of the cloth = Lxw = 78cm x 56cm = 4368 cm2

- Area not anged by cloth 6300 cm 4368 cm2 1,932 cm
- (2mrks) (3mrks) A man got a loan of sh. 120,000 from a Savings and Credit 29. Cooperative Society at a simple interest rate of 8% per annum. He paid an interest of sh. 7,200 on the loan. For how long was the loan?

SI = PXRXT sh. 7200 = sh. 120,096 x 8 x T T = 63 Sh. 7200 = Sh. 9600 x T

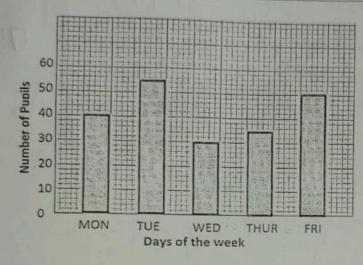
1 year = 12 months = 9 months

The loan was for 9 months

(3mrks)

30. The graph below shows the attendance of P.7 pupils last week in Kagera primary school. Use it to answer the questions that follow. If it registered 60 pupils in the primary seven class.

Dave of the	T	-			
Days of the week	Mon	Tue	Wed	Thur	Fri
No. pupils	40	55	30	35	F.O.
	1.0	33	30	35	50



(1mrk)

(1mrk)

(a) How many pupils were present on Thursday?

35 pupils

(b) Find the difference between the highest and the lowest attendance.

-30 popils.

25 popils.

(c) How many pupils were absent on Tuesday?

500 popils -55 popils 05 popils 5 popils (d) Find the average number of pupils absent in that week.

40 35 30 25 10 Average = Sum of data Number of data Number of data Number of data

= 18 popils

31. (a)	Solve for $n$ : $34_n = 201_{\text{three}}$		Simplify: (-3 9)	
	34n = 201 three Lones Libree threes		(-3-(-9)-(-	7)
	(3xn) + (4x1) = (2x3)	x3) x (x3)+(1×1)	-3+9+7	-2
	3n+4=18+0+1 $3n+4=19$	n = 5	-3+16	-0/2
	3n+4-4=19-4 $3n=15$	n is base five	16-3	-6/2
22	13m = 15/3,	(2mrks)	-2	(3mrks)

32. The table below shows how adverts are charged in a news paper per week.

SIZE	BLACK AND WHITE	FULL COLOUR
Full page (inside)	1,145,300/=	1,750,000/=
Half page	572,650/=	875,000/=
Quarter page	286,000/=	438,000/=
Front page	1,140,000/=	1,630,000/=
Back page	280,000/=	610,000/=

What would be the cost of advertising a full page in black and white

for 3 weeks? Week 1 sh.1,145,300	100%-20%	Week 3 100%-20% 80%. 80%.	Sh. 1,145,300 Sh. 1,145,300 Sh. 1,145,300 th. 732,992 th. 732,992 Sh. 2,794,532 Sh. 2,794,532
	Sh.916,240	Ch. 732,992	1+ would be Sh. 2, 794, 532

## END