RUBANDA DISTRICT EDUCATION COMMITTEE DEPARTMENT OF EDUCATION AND SPORTS

PRIMARY MOCK EXAMINATIONS 2023

MATHEMATICS

Time Allowed: 2hours 30Minutes

Random No.	Personal No.

		les HT	
Candidate's Name:			
Candidate's Signature:		8	
Name of School:		. 8. 8	
Read the following instructions carefully.		miners'	Use only
1. This paper has two Sections A and B .	Qn No.	Marks	Exrs' No
2. Section A has 20 questions and section B has 12 questions.	1-5	ft= (m, a,	Sei
	6-10	\$15(V) (1983)	194.2
3. Answer all questions. All the working for both sections A and B must be shown in	11-15		
the spaces provided.	16-20		
4. All answers must be written using a blue or black ball point pen or ink. Any work written in a pencil will not be marked except	21-22		
diagrams wouled sugit setting X by	23-24	stire size	4 Fill
No calculators are allowed in the examination room.	25-26		
6. Unnecessary changes in your work and	27-28		
hand writing that cannot be read easily may lead to loss of marks.	29-30		
7. Do not fill anything in the table indicated: "For examiner's Use only" and boxes	31-32		
inside the question paper.	TOTAL		

DEPARTMENT OF REJECTION

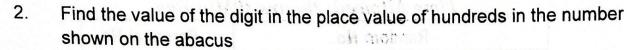
Read the following included carefully

t. This paper has two Sections A and B

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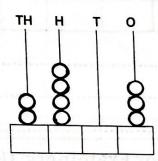
 Answer all questions. All the working for both sections A and B must be shown in

1. Work out: 6 x 3



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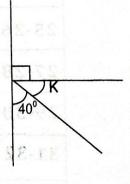
MATHEMALICS



3. Set $Y = \{k, l, m, n, o\}$ and Set $R = \{m, a, r, k\}$

List members that are common to sets Y and R

4. Find the size of angle marked K in the figure below.



 Lindecessary changes in your Work par igent within their carrior be read desky.

Do not the acycling in the table reproductive and boxet.

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examination facilities

Find the next number in the sequence: 5.

1, 5, 11, 19, 29, ___

Find the number whose expanded form is shown below. 6. 4 + 600 + 7000A stone weight 250g. Finduts weight in Cg.

Write in figures. "Fourteen and eight hundredths" 7.

 $\mathbf{a} = \mathbf{4}$ and $\mathbf{b} = \mathbf{5}$. Find the value of $\mathbf{a}^2 + \mathbf{b}^2$ 8.

A mathematics examination that took $2\frac{1}{2}$ hours started at 11:15am. At 9. what time did it end?

envisión to ling 20ch to lego entina 1, 30**05 de at**eco lo gravido do pás A

Kators Krail States of Vacantain Mustander Schede and what Missing in Sign 4

10. Set $N = \{7, 8, 9\}$. List all proper subsets of set N

11. Work out $(100 \div 2) - (80 \div 2)$ using the distributive property

12. A stone weighs 250g. Find its weight in Cg

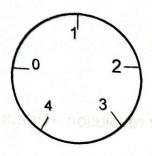
 Kato is k + 7 years old, Murungi is 2k years old while Muhindi is 3k- 4 years old. Find their mean age.

s examination that topic 24 frome started at 4 f. fram. At

14. A litre of cooking oil costs sh.8000. Find the cost of 2500 cm³ of cooking oil

SoftN = 27 R 9 List attended aubsels of set f

15. Use the dial method to work out 3 - 4 = _____ (mod 5) world award and a contract the dial method to work out 3 - 4 = _____ (mod 5) world award and a contract the contract

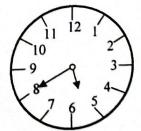




16. Solve for n: 3n - 6 = n

17. Use a pair of compasses and a ruler to construct an angle of 135°

18. Write the morning time shown on the clock face below in 24 hour clock system

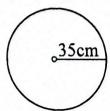


19. Find the number of years in which sh. 400,000 yields an interest of Sh.80,000 at a rate of 5% p.a

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TRAPA ()

20. The figure below shows a bicycle wheel.

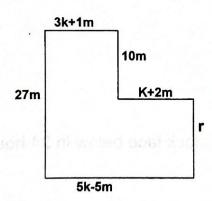


Find the number of cm it covers in one revolution. (Use $\pi = \frac{22}{7}$)

SECTION B (60 marks)

Find the number of years in which shi 400,000 yields an Interest of

21. The figure below shows a piece of land.



(a) Find the value of r

(2marks)

n = 8 - n8 /1 101 9VI08

(b) Find the value of K

(03mrks)

- 22. A bus left town A at 9:40 am moving at a speed of 80km/h and reached town B at 12:10 pm.
 - (a) How long did the bus' journey take? (2mrks)

(b) Find the distance between the two towns

(2mrks)

23. The table below shows items bought by a man from a certain shop.

Find how much he visuald pay if he was allowed a discount

Quantity	Unit cost	Amount
2 loaves	Shper loaf	Sh. 11,000
grams	Sh. 4000 per kg	Sh. 2,000
1/4 kg	Sh per kg	Sh. 1500
		Sh.
		grams Sh. 4000 per kg

Complete the table (a)

(4mrks) trendsen blis filfiliates to basine a la privom marea. 2 la A rivot fiel sutt A

(b) Find how much he would pay if he was allowed a discount of 10% (2mrks)

(a) How long did the bils journey lake? (Zmrka)

(b) Find the distance between the two towns

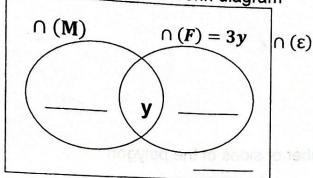
Mark fuels his car after every 6 days while Luke fuels his after every 7 24. days. After how many weeks will the duo fuel their cars on the same day? (4mrks)

grams | Sh 4000 parkg | Sh. 2,900

Sh _____ net to 134 1500

In a group people, y+ 6 eat meat (M) only 3y eat fish (F), y eat both meat 25. and fish while 4 eat neither meat nor fish

Show the information on a Venn diagram (a) (3mrks)



(b) The number of those who do not eat meat is 14. Find the value of y (2mrks)

- A man uses 10% of his monthly income for rent, $\frac{3}{10}$ for food, 0.4 for fees 26. and the rest for others.
 - Find the fraction of the income that he uses for others
 - Given that he uses sh. 200,000 for fees, find how much his monthly (b) (2mrks) income is

- 27. The exterior angle of a regular polygon is $\frac{2}{3}$ of the interior angle
 - (3mrks) Find the exterior angle of the polygon (a)

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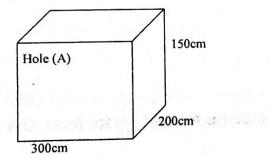
Find the number of sides of the polygon (b)

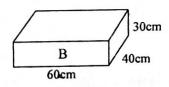
(Zirons)

(Attention)

(2mrks)

Below is a rectangular hole (A) and container (B) 28.





Find the volume of the hole (a)

(2mrks)

Find the number of containers (B) full of soil that can be used to (4mrks) fill hole A

In a class, there are 60 pupils. 20 of them like volley ball, 1/4 of them like football and the rest like basket ball. Represent this information on a pie 29. TENT DENT NOTE ((5mrks) chart.

Alice is 25 years younger than Mary and 30 years younger than Sarah. 5 years ago, Sarah was 4 times as old as Alice. Find Alice's ago now 30. (5mrks)

John can build a house in 12 months, Mark can build the same house in 6 months while Mathew can build it in 4 months. If the three are employed 31. to build the house, find the number of months they will take to build it. (4mrks)

- 32. Town Q is 100km East of town K and town Z is 80km from town K on a bearing of 210°
 - (1mrk) (a) Draw a sketch diagram showing the three towns

Use a scale of 1cm: 20km to draw an accurate diagram for the (b) three towns (3mrks)

years ago, Sarah was 4 times as old-as Ation. Find Alice's ago

(c) Find the shortest distance between towns Q and Z (2mrks)

END