## THE JUBRA EDUCATIONAL SERVICES - KAMPALA

( PRE-PLE SET 1 2023)

## **MATHEMATICS**

Tir.	ne Allowed:	2hours 15	minutes	S		
	Random No.		Personal No.			
Index No.						, D/D/1-3754 -
Candidate's Name						•••••
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DO NOT OPEN THIS E				TOLD	TO DO	) SO
Read the following in  1. This paper is made up of	two sections	A and B.	-		EXAMINUSE ONL	
2. Section A has 20 questions (40 marks)			PAGES	MARKS	SIGN	
3. Section B has 12 questions (60 marks)			Page 1			
4. Answer ALL questions. All answers to both section			Page 2			
A and B must be written in the spaces provided.			Page 3			
5. All answers must be written using a blue or			Page 4			
black ball-point pen or in	k			Page 5		
6. Unnecessary alteration of	of work may le	ead to loss o	f marks.	Page 6	7 2-6 0 0	1
7. Any handwriting that can				Page 7		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
loss of marks.					1111	



Examiner's use only

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8. Do not fill anything in the boxes indicated For

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TOTAL

## SECTION A

1. Work out 654 + 23

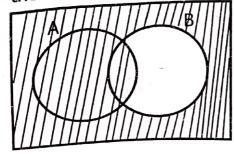
6. Simplify: -4 - +5

- 2. Write "Forty eight thousand fourteen" in figures.

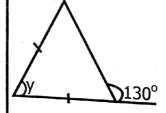
7. Express  $12\frac{1}{2}$ % as a ratio.

- 3. Express 00 40hrs in a 12 hour clock system
- 8. Given that a=2  $b=1\frac{1}{2}$ , Find the value of a:b 3

- 4. Change 6.52tonnes to Kilograms
- 9. John bought a pig and sold it after sometime at sh. 80,000, If he made a loss of sh. 25,000, How much did he buy it.
- 5. Describe the unshaded region in the venn diagram below.



10. Find the size of angle y in the figure below

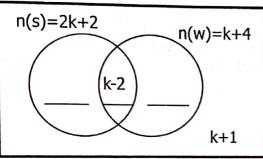


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16. With the help of a ruler, pencil and a pair of compasses only. Construct an angle of 135°	17. Set P={a, b,c, d, e} Q = {a, e, i, o, u} Find n(P-Q}	18. Solve: $2^{3n} \div 2^n = 2^4$	19. Work out: 0.36 0.4 +0.5	20. The temperature at the top of the mountain was -13°C and it rose to -4°C. By how many degrees did it rise?
11. Find the next two numbers in the sequence below 1, 2, 10, 37,	12. Twelve men can do a piece of work in 6days. How many more men are required to do a similar piece of work at the same rate in 4 days?	13. Work out the median of -4, -10, 5,0 and '3	14. How many packets of 200 grammes can be obtained from 2.6Kilogrammes	15. Jeremiah withdrew bank notes numbered consecutively from KB094558 To KB094647 each worth five thousand shillings. Calculate the amount of money he wihdrew.

## **SECTION B**

- 21. At a birthday party attended by some guests, (2k+2) guests drank soda (s), (k+4) guests drank water (w), (k-2) guests took both kinds of drinks while (k+1) guests drank none of the two drinks.
- a) Use the above information to complete the venn diagrams below.



(2mrks)

b) Find the value of the unknown base  $2001_p = 127_{six}$  (3mrks)

23. Masaka is 240km away from Kalungu. A motorist left Masaka to Kalungu at an average speed of 96km/h. How long did he take on his way? (2mrks)

b) If 15guests drank only one kind of drinks, how many guests drank none of the two drinks?

(3mrks)

22a) Workout the 1001 two - 111two (2mrks)

b) If he returned to Masaka using the same route at a speed of 160km/h, Calculate his average speed.

(3mrks)

b)

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24. Solve for k	n ta batan pobli prapod i se in
$\frac{2.4 \times k = 6}{0.8 \times 0.18}$	(3mrks)
	granes lauru frigotopi apina babilan ilije
) Express 0.2333as a simplifie	ed fraction.
	(2mrks)
	*
ing a second	en and had worns orong that shall all and the shall are the same and the shall are the same and the same are the same and the same are
25. Using a pair of compasses, a ruler an	Manufacture of the second
right angled trapezium ABCD where $\overline{AB}$ $\overline{AD}$ = 4cm.	y = 7cm, 4bhb = 30
	<ul> <li>a) Workeutt dhe size of angin Y</li> </ul>
	28. Study the numberline below and a
	(5mrks)
b) Measure length DC in centimetres.	(1Mark)
gen smanati a unacipaten even et alte	or inemalists to diame. Tell collaw (b)
and the second s	
The state of the s	5

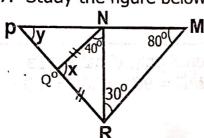
- 26) Aejo bought 800 oranges at sh. 400 each. She sold 450 oranges of them in heaps of 5 at sh 3000 each heap. She grouped the remaining oranges in heaps of 7 and 1000 areas of 7 an heaps of 7 and sold each heap at sh. 5000 each heap.
- a) Find the total amount after selling all the oranges?

(3mrks)

b) Calculate her percentage profit?

(3mrks)

27. Study the figure below and answer the questions that follow.



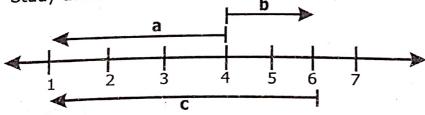
a) Find the value of x

(2mrks)

b) Workout the size of angle Y

(2mrks)

28. Study the numberline below and answer questions about it.



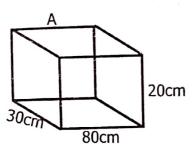
i) Write down the integer shown by

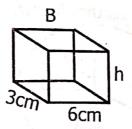
(3mrks)

ii) Write a mathematical statement for the above numberline. (1mark)

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In the diagrams below, 520 small boxes of size B were packed in a big box of size A up to the last layer.



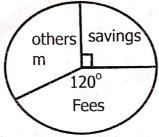


a) If the volume of the empty space left after packing all the possible small boxes was 1200cm³. Find the number of layers in box A after packing all the possible small box B. (5 marks)

30. A father is 30years older than his son. In 7years ago, the ratio of their age was 5:2. How old is each now? (5mrks)

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31. The piechart below shows how Mrs Jane spends her monthly salary. Use it to answer questions that follow.



a) Find the value of m in degrees.

(2mrks)

b) If she earns sh 480,000 how much does she save.

(2mrks)

c) Express the portion for others as a simplified fraction.

(1mrk)

32. How many revolutions does a wheel of a car of diameter 70cm take to cover a distance of 44 meters? (Use  $\pi = 22$ ) (4mrks)

\*\*\*\*\*\*\*\*END\*\*\*\*\*\*\*
Good Luck