

Mathematics

Time allowed: 2 hours 30 minutes

Random Number				Personal No.				

Ca	ındidate's Name:			
Ca	ındidate's Signature:			
ı	District ID No.			
R	EAD THE FOLLOWING INSTRUCTION			LLY: USE ONLY
1.	This paper has two sections: A and B . Section A has 20questions and section B has 12 questions .	Qn. No.	MARKS	EXR'S No.
2.	Answer all questions. All the working for both	1-5		
	sections A and B must be shown in the spaces provided.	6 -10		
3.	All working must be done using a blue or black ballpoint pen or ink. Any work done in pencil other	16 - 20		
	thangraphs and diagrams will not be marked.	21 - 22		
4.	No calculators are allowed in the examination room.	23 - 24		
5.	Unnecessary changes in your work and handwriting	25 – 26		
	that cannot be easily read may lead to loss of marks.	27 - 28		
6.	Do not fill anything in the table indicated "For Examiners' use only"	29 – 30		
	and the boxes inside the question paper.	31 – 32		
	m	TOTAL		
	Turn Over	<u> </u>	i	l

SECTION A

	SECI	TOI	<u>^</u>
1.	Multiply: 0.4 x 0.2.	2.	Subtract (2x -4) from (5x -4)
3.	Find the value of the exterior angle of a regular hexagon.	4.	Two numbers, 27 and 36 have a Lowest Common Multiple(LCM) of 108. Find their GCF.
5.	The average weight of 5 boys is 48kg. When a sixth boy joins them average weight becomes 45kg. What is the weight of the sixth boy?	6.	The Perimeter of an equilateral triangle is 36cm. If one side is (x+8) cm, find the value of x.
7.	Using a ruler, a sharp pencil and a pair of compasses only, construct an angle of 75° in the space below.	8.	During a debate, each side gave 20 views. If the secretary was awarding 3 points for every defended view and deducting a point for every opposed view. How many views did the proposers defend if their final score was 72 points?

9.	Change 13 four to binary base.	10.	Solve: $3y = 5$ (finite 7)
11.	The sum of four consecutive counting numbers is 46. What is of the first number?	12.	Water in a 20 litre jerycan leaks at a rate of half a litre every 40 minutes. How much water will be left in the jerycan after 4 hours?
13.	How much simple interest on Sh.240,000 at a rate of four and a half percent per month would Sam pay to a Micro finance bank after 3 months?	14.	In a school, the fraction of the boys is a fifth more than that of girls. The school has 280 girls. Calculate the total number of pupils in the school
15.	How many tins of 500grams would one get from a 4 kilogram tin of KIMBO?	16.	The average weight of four boys is 56kg, when two teachers join them, their average weight becomes 52kg. Find the weight of the two teachers.
17.	In the figure below, find the bearing of town B from town A. N A 650 B	18.	In the figure find the value of x. 1200 3x

19.	A man's stride is 30cm. How many strides does he have to make to cover a distance of 150 metres?	20.	Find the smallest number that can be divided by 8 or 12 and leaves 5 as the remainder.
	SECT	ION	В
21.			epresents the number of boys in a
	school. If the If there are 490 girls in		
	(a) How many	pup	ils are in the school? (03 Marks)
	(b) How many more girls than boys	are	in the school? (02 Marks)
22.	water (M). 30 pupils took soda an water, 6 pupils took neither of the mineral water. The number of pup of those who took both soda and	dtı edri oils v mine	who took soda only was twice that eral water.
	a) Draw a Venn diagram in the space below and represent the above information.2 marks		b) Find the number of pupils who took both drinks. (02 marks)
	c) Calculate the total number of pupil	s in	the class. (02 marks)

23.	In Atiri Primary School there are the minutes for Nursery, the next after minutes for Upper primary.		
	a) If all lessons begin at 7:30am. After how long will all the bells ring at the same time? 3 marks	b) How many lessons will end have had by the time all ring together?	
24.	In the figure below \overline{PQ} is parallel to questions that follow.	\overline{s} . Study it carefully and \overline{s}	answer the
	$P \longrightarrow Q$	Find the size of the angles m	arked x, c
	$\begin{array}{c} 100^{\circ} \times \\ R \longrightarrow S \end{array}$	X	(1 mark)
	ii) C (2marks)	iii) n	(2marks)
25.	While testing for COVID 19 cases in the ratio of negative to positive case positive cases were from Elegu tow were from Luweero. If 60 of the re Kampala,	was 3:25 respectively. 4 while a fifth of the negat	0% of the ive cases
	How many positive and negative cases each were tested in Uganda that day? (3 marks)	(b) Find the number of post registered in Elegu town that (02 Marks)	

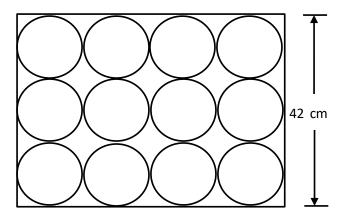
26.	Samson had 4y pancakes which was tweeling four pancakes more than Samson while Gloria. If the four shared 54 pancakes,	• •
27.	a) Peter packs milk in packets of 750ml each and then delivers 285 litres to the nearby dairy for sale. How many packets of milk does Peter deliver to the dairy? (02 marks)	b)If Peter rides on a motorcycle while taking the milk to dairy travelling at a speed of 27km/hr for two hours, at what speed must he ride to come back to cover the same distance in 1½ hours? (03 marks)
28.	, , ,	elled from Kampala to Nairobi by bus. ghter paid K.shs 750. 1 Kenya shillings
	a) Workout the bus fare in Uganda shillings which each of them paid. (03 Marks)	b) If John had Ugsh.100,000 at the beginning of the journey, what was his balance in Kenya shillings after paying bus fare for himself and the daughter? (02 Marks)

29	(a) Add:	3 + 4 =	(mod 9)	(01 mark)
L Z J .	(a) Add.	J 1 T	(IIIOu)	(OI Mark)

(b) Kirabo sat guests in groups of nines but seven got no seats she tried seating them in groups of eights but four didn't get seats and she finally sat them in groups of threes and one visitor got no seat. How many guests attended the party?

(03 marks)

30. Lukwago cut out circular cards from a rectangular manilla paper whose width is 42cm as shown in the diagram below. Study the diagram and answer the questions that follow.



- (a) Find the length of the manilla paper. (02 marks)
- (b) Calculate the area of the pieces of the manilla paper that remained. (03 marks)

31.				
0	Aaron deposited some money in the bank which offers a simple interest rate of 12% per annum for 15 months. If he received an interest of sh.45,000.			
	(a) What amount of money did	d he (b) Calculate the amount of mone	ev he	
		Marks) received at the end of 15 months	•	
	deposit in the bank: (03	·		
		(02 M	larks)	
22	A	: f	_	
32.	(ST) for 65km on a bearing	ing for elections drove from State House 0450 to the Electoral Commission (EC) d South East to the Polling Station (PS)		
	70km.	a south last to the rolling station (13)		
	_	scont 10km, show the three places on an acc	urato	
	-	esent 10km, show the three places on an acc		
	diagram.	(03 Marks)	
	(h) Find the shortest distance	between the polling station and the State Ho	IISA	
		between the polling station and the State Ho		
	(b) Find the shortest distance in Km.	between the polling station and the State Ho (02 Ma		