

KAMPALA CAPITAL CITY PRIVATE SCHOOLS' TEACHERS EXAMINATION COMMITTEE

SPECIAL - MOCK 2024

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Index No.

Random No.				Pers	sonal	No.
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Candidate's Name:	
Candidate's Signature:	
School Name:	

Read the following instructions carefully

- 1. This paper has two sections: A and B. Section A has 20 questions (40 marks) and Section B has 12 questions (60 marks).
- Answer all questions. All the working for both sections A and B must be shown in the spaces provided.
- 3. All working must be done using a blue or black ball point pen or ink. Any work done in pencils other than graphs and diagrams will not be marked.
- 4. No calculators are allowed in the examination room. Unnecessary changes in your work and hand writing that cannot be read easily may lead to loss of marks.
- 5. Do not fill anything in the table indicated: "For Examiners' use only"

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

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TURN OVER

	SECTION A Attempt all questic Question 1 to 20 ca	ons in	this section
1.	Workout: 62 – 35	2.	Round off 29.98 to the nearest whole number.
3.	If Set $H = \{0,1,2,3,4\}$ and Set $L = \{0,2,4,6,8,9\}$. Find $\cap (L \cup H)$	4.	Calculate the number of elements in a set with 15 proper subsets.
5.	Workout: $2 - \frac{2}{3}$	6.	Simplify: $4p - (2 + p)$
7.	Using a ruler, pencil and a pair of compasses only, construct an angle of 135°.	8.	Write the morning time shown on the clock face below in 24 hours clock.
9.	Find the square of 0.09	10.	What is the next number in the sequence. 1, 4, 9, 16,

11.	Write 3485 in standard form.	12.	Write 132 _{five} to decimal base.
13.	Workout (42 ÷ 6) + (48 ÷ 6) using distributive property.	14.	A trader sold a bag at sh.84,000 and then realized a 40% profit. What was the cost price of the blanket?
15.	Workout the mean of 3y, 0, 3, 2y and 7.	16.	Given that 1 US Dollar = UgSh 3750 and 1Ksh = UgSh 35. Find the cost of 1US Dollar in Ksh.
17.	Solve the inequality: $2y + 3 \ge 7$	18.	Write CIX in words.

Solve: 1 - 3 = x (finite 5) In the triangle below, find the 19. 20. size of angle n in degrees. SECTION B (60 MARKS) Attempt all questions in this section Marks for each part of the question are indicated in the brackets In a village, r farmers grow Beans (B) only, (r + 4) grow Maize (M) but 21. not beans. 11 farmers grow both crops while 2 did not grow any of the crops. Complete the Venn diagram below. (a) $\cap (M)$ \cap (B) 11 (2marks) If a farmer is selected to become If 22 farmers grow only one type (b) (c) of crop. Find the value of r. the chairman of the village. What is the probability that a farmer selected grows Maize only.

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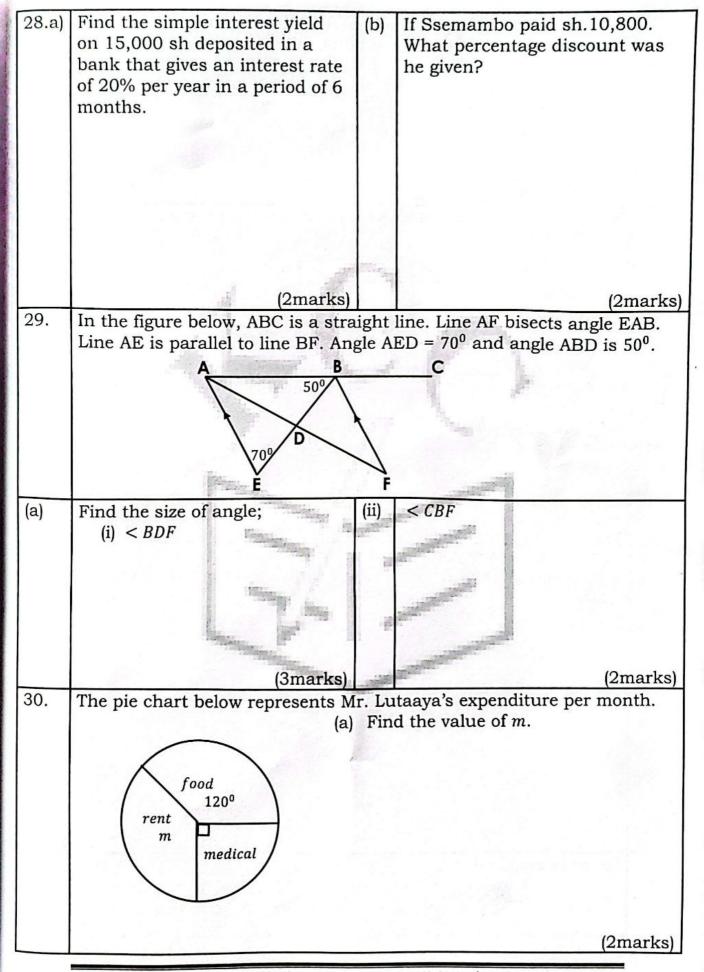
(2marks)

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(2marks

22.a)	Simplify: $\frac{0.18 + 1.82}{0.25}$	(b)	Express $\frac{5}{12}$ as a recu	rring
	1.51 - x 330	1	decimal.	
		- 17		
	(3marks)			(2marks
23.	A cylindrical tin of radius 7cm co	ntaii	ns 3080cm ³ of milk.	
(a)	Ruth sold 2156cm ³ of the milk. V	Vhat	is the height of milk re	emaining in
	the tin? $(\pi = \frac{22}{7})$			
	All American			
		Toronto.		
			The state of the s	
	The state of the s			(3marks)
(b)	Ruth poured the remaining milk	into	a rectangular containe	
(5)	area 77cm ² . What was the height	of th	ne milk in the containe	r?
	and the second second		200	
	Films, and	No.		
		1		
			-	
	THE RESERVE		A STATE OF THE STA	
				(0 1)
		111	2 5	(2marks)
24.a)	What is the place value of 4 in	(b)	Simplify: $\frac{m^3 \times m^5}{m^4}$	
	the number 340029?		m ⁴	p late
		4		
	(1mark)			(2marks)
(c)	Expand 236 using powers of ten.	- 500		
(~)				
				(2marks)

25.	Twenty two poles were fixed around	a circular fish pond.
(a)	Find the diameter of the pond if the interval between the poles was 6m. $(\pi = \frac{22}{7})$	
-		
26	(3marks)	(2marks)
26.	Ssemambo bought the following item - 3 tins of tea leaves at 2200sh p	
	- 2 loaves of bread at 1700sh per	A CONTRACTOR OF THE PROPERTY O
	- $2\frac{1}{3}$ kg of salt at 800sh per kg	
(0)	Calculate his total bill for the (b)	If Ssemambo paid sh. 10,800.
(a)	items above.	What percentage discount was he given?
	fine.	100
	The second of th	
	The second secon	
	(4marks)	(2marks)
27.a)	Use the number line below to find th	e value of the letters below.
	а	b
	7 6 5 4 3 2 1	0 1 2 3 4 5
	4	С
		_
	a = b =	c =
		(3marks)
(b)	Write the mathematical statement ca	d sentence represented above.
Expensed in		(1mark)



(b)	Given that Mr. Lutaaya spends sh.36,000 more on rent than on food. How much does he earn per month?
	(3marks)
31.	Study the figure below and use it to answer the questions that follow. $ (y+2)cm $
	<u> </u>
	y cm
	(2y-3)cm
(a)	Find the value of y. (b) Find the volume of the figure.
	(0, 1, 1)
32.a)	(2marks) (3marks) Using a ruler, pencil and a pair of compasses only, construct a
	parallelogram $wxyz$ in which $wx = 7 \cdot 5cm$, $xy = 4cm$ and angle $wxy = 120^{\circ}$.
i Nav	
133	
(b)	Measure diagonal wy. (4marks)
1000	(1mark)