## KAMPALA CAPITAL CITY AUTHORITY



INDEX NO:

**DIVISION NAME: ..** 

# DIRECTORATE OF EDUCATION AND SOCIAL SERVICES PRIMARY SEVEN MOCK EXAMINATIONS 2023

Personal No.

#### **MATHEMATICS**

#### TIME ALLOWED: 2 HOURS 30 MINUTES

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CANDIDATE	'S N	АМЕ	C:			 	 	MUZEYI KIZITO	)
CANDIDATE	'S S	<b>IGN</b>	ATU	RE:		 	 		
EMIS No:						 	 		

### Read the following instructions carefully.

EMIS No.

- This paper is made up of two sections:
   A and B
- 2. Section A has 20 questions (40 marks)
- 3. Section B has 12 questions (60 marks)
- 4. Answer ALL questions in both sections A and B
- ALL answers **MUST** be written in Blue or Black
   Ball point pen or ink
- 6. Un-necessary changes in your work may lead to loss of marks.
- 7. All diagrams MUST be drawn in pencils.
- 8. Any handwriting that cannot be easily read may lead to loss of marks.
- 9. Do **not** fill any thing in the boxes shown "For Examiner's use only".

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FOR EXAMINERS' USE ONLY								
QN. NO.	MARKS	SIGN						
1 - 10		den						
11 - 20								
21 – 25		4.24						
26 - 30								
31 - 32								
TOTAL								

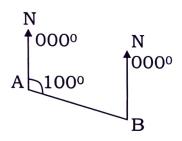
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	SEC	110	CONTRACTOR OF THE PROPERTY OF
1.	Workout: 6 ÷ 3	2.	Shade the region representing (PnQ) <sup>1</sup> , in the Venn diagram below.
3.	Using distributive property to workout: (81 ÷ 7) – (11 ÷ 7)	4.	
5.	Find the next number in the sequence given below.  2, 4, 7, 12, 19,	6.	Solve the inequality: 3 - 2m < 7
7.	Express 13 as a decimal fraction.	8.	The temperature on the top of the mountain was <b>5</b> ° celcius, at 11:00am. By 2:00pm, the temperature rose to <b>8</b> ° celcius. Find the new temperature on the top of the mountain.

- Mariam scored the following marks 10 A cyclist rode at a steady speed her daily mental work exercise for for a week 7, 6, 6, 7, 2, 6, 8. What was her modal score?
  - of **54** kilometer per hour. What was his speed in metres per second?

11. In the diagram below, find the bearing of **A** from **B**.



12. The cost of sending official announcement on a community radio is as follow.

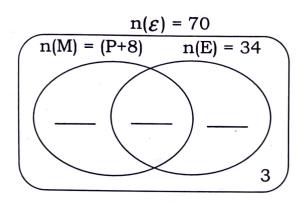
> Ug. Sh. 20,000 for the first 30 words Ug. Sh 1,000 for each extra word

Find the cost of sending an announcement of 45 words through the the community radio.

		<del>'</del> -	116 W2 2W + 2W2 + 2W
13.	Convert <b>0.04m²</b> to cm²	14.	Simplify: <b>K</b> <sup>2</sup> – <b>3K</b> + <b>2K</b> <sup>2</sup> + <b>3K</b>
		4	· ·
			,
15.	If Set $A = \{c, o, w\}$ , find the	16	Write <b>CIV</b> in Hindu Arabic
	number of subsets in set A.		numerals.
	1101111001 01 0110000 111 000 11.		
		1	
	*		
	•		
40			
17.	Given that prime factors of	18.	In the diagram below shade <b>25</b> %
. 1	$Y = 2^2 \times 3$ and prime factors of		of the total number of squares.
	$X = 2^1 \times 3^2 \times 5^1.$		•
	Use the given prime factors above		,
	-		
	to find the LCM of <b>X</b> and <b>Y</b> .		
			263
	선생님 아이는 사람들은 사람이 되었다.	10.20	
10	Using a ruler, a pencil and a pair	20.	A pen costs <b>sh.</b> (2,000 + <b>k</b> ) if it
19.		20.	costs twice as much as a book
	of compasses only, construct an		
	angle of 105° in the space provided	3/25	write an expression for the cost
	below.		of a book.
	*		
	,		

©

- 21. In a class of **70** pupils, **34** like English (E), **(P+8)** like Mathematics (M), **8** like both subjects and **3** like neither of the two subjects.
- a. Using the information above complete the Venn diagram below.



(3marks)

b. How many pupils like Mathematics?

(2marks)

22. Express **24.009** in standard form. b.

b. Workout:  $11_{two} \times 11_{two}$ 

(2marks)

(2marks)

c. Find the value of 2 in the number 1201<sub>five.</sub>

(1mark)

23. In a market of 800 people  $\frac{1}{4}$  are children and the rest are adults.  $\frac{2}{3}$  of

the adults are women and the rest are men.

If 3 of the children are boys, how many boys are in the market?

5 (2marks)

b. Express the number of girls in the market as a percentage of women in the market.

(3marks)

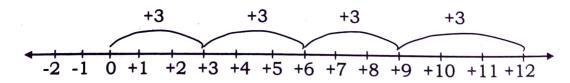
24. Workout: **4 - 7** using the number line below.

(3marks)

a.

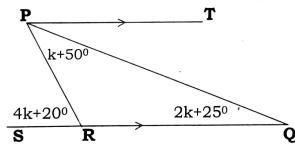
b. Write a mathematical statement from the number line below.

(2marks)



25.	A boy spent <b>sh. 4,500</b> of his pocket money on breakfast, <b>sh. 7,500</b> on lunch and <b>sh. 6,000</b> on super. Using a radius of <b>3.5cm</b> , construct an accurate pie-chart to show the above information.
	(5marks)
26. a.	Two trains, arrive at the station at an interval of 1½ hours one after the other. A man arrived at the station, 55 minutes after the first train had arrived. For how long will the man wait for the second train to arrive?
	(2marks)
b.	A motorist travelled <b>80km</b> in <b>40minutes</b> . Calculate the speed of the motorist in kilometers per hour.
	(3marks)

27. a.	Given that the present exchange rate is US \$ 1 to Ug. <b>Sh. 3,600</b> . If a watch costs Ug. <b>Sh. 72,000</b> , how much does one pay in US. dollars for a watch?
	(2marks)
	sugar, how much money did the teacher pay for the sugar?
	(3marks)
28.	In the figure below line <b>PT</b> is parallel to line <b>SQ</b> . Study the diagram below and use it to answer the questions that follow.
	a. Find the value of <b>K</b> . (3marks)
	$\mathbf{P}$ $\mathbf{k}+50^0$



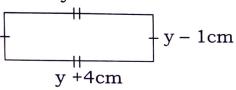
Find the size of angle RPT. b.

(2marks)

29.	Find the number of revolutions a wheel of diameter <b>70cm</b> can make to
а	cover a distance of <b>4.4km</b> ?
u.	(3marks)

b. The perimeter of the rectangular floor of a room shown below is **34cm**. Find the value of **y** given that the length is **y + 4cm** and width **y - 1cm** respectively.

b.



30. a. Simplify: 
$$\frac{1}{2} \div \frac{2}{3} - \frac{3}{8}$$

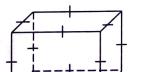
**Workout:** <u>0.45 + 0.55</u> 0.8 – 0.3

(2marks)

(3marks)

31. The figure below shows a cubical box of volume 1 litre.

a. Find the length of its side in centimeters. (1litre = 1000cm<sup>3</sup>)



(3marks)

b.	Workout its total surface area. (2marks)	
20	A. 1. 1. 2. CE 1: Q. 4. E - f the main hall and a P.7	1
32.	A head teacher's office is <b>24metres</b> East of the main hall and a P.7 block is <b>32metres</b> North of the head teacher's office.	
a.	Draw a sketch diagram to show the position of the 3 places (indicate	
	the northern direction) (1mark)	
		1
b.	Using a scale of 1cm to represent 4metres, draw an accurate diagram	
	and measure the shortest distance between the P.7 block and the main	
	hall.	
المواجعة فالمواجعة	(4marks)	لـ