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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EMIS No:					•			

Read the following instructions carefully.

EMIS No.

- 1. 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
- 5. 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		,				
11 - 20						
21 – 25	*					
26 - 30						
31 - 32						
TOTAL						

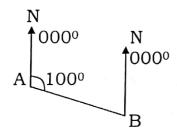
TURN OVER

SECTION A

	SECTION A						
1.	Workout: 6 ÷ 3	2.	Shade the region representing (PnQ) ^I , in the Venn diagram below.				
3.	Using distributive property to workout: (81 ÷ 7) – (11 ÷ 7)	4.	Write the number 2023 in words.				
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 5° celcius, at 11:00am. By 2:00pm, the temperature rose to 8° celcius. Find the new temperature on the top of the mountain.				

- 9. Mariam scored the following marks her daily mental work exercise for for a week **7**, **6**, **6**, **7**, **2**, **6**, **8**. What was her modal score?
- 10. A cyclist rode at a steady speed 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.

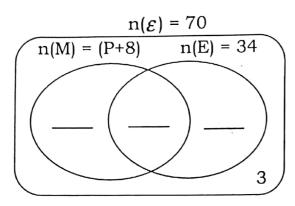
Ug. Sh. 20,000 for the first 30 words Ug. Sh 1,000 for each extra word

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



13	. Convert 0.04m² to cm ²	14.	Simplify: K ² – 3K + 2K ² + 3K
15.	If Set A = { c , o , w }, find the number of subsets in set A .	16	Write CIV in Hindu Arabic numerals.
17.	Given that prime factors of $Y = 2^2 \times 3$ and prime factors of $X = 2^1 \times 3^2 \times 5^1$. Use the given prime factors above to find the LCM of X and Y .	18.	In the diagram below shade 25% of the total number of squares.
	Using a ruler, a pencil and a pair of compasses only, construct an angle of 105° in the space provided below.	20.	A pen costs sh. (2,000 + k) if it costs twice as much as a book write an expression for the cost 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: $11_{\text{two}} \times 11_{\text{two}}$

(2marks)

(2marks)

c. Find the value of 2 in the number 1201 five.

(1mark)

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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 <u>3</u> 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.

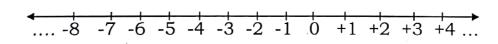
(3marks)

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

(3marks)

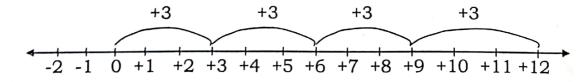
a.

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

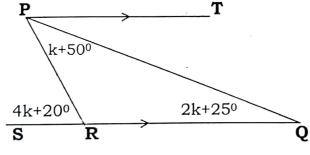
(2marks)



25.	A boy spent sh. 4,500 of his pocket money on breakfast, sh. 7,500 on lunch and sh. 6,000 on super. Using a radius of 3.5cm, 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?
b.	A motorist travelled 80km in 40minutes . Calculate the speed of the motorist in kilometers per hour.
	(3marks
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27. a.	Given that the present exchange rate is US \$ 1 to Ug. Sh. 3,600. If a watch costs Ug. Sh. 72,000, how much does one pay in US. dollars for a watch?
	(2marks)
b.	The cost of 0.25kg of sugar is sh. 1,250. A teacher bought 2½kg of sugar, how much money did the teacher pay for the sugar?
	(3marks)
28.	In the figure below line PT is parallel to line SQ . Study the diagram below and use it to answer the questions that follow. a. Find the value of K . (3marks) P K+500
	KTJU"

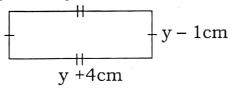


Find the size of angle **RPT**. b.

(2marks)

29.	Find the number of revolutions a wheel of diameter	70cm can make to
a.	cover a distance of 4.4km ?	(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.

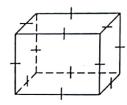


30. Simplify:
$$\frac{1}{2} \div \frac{2}{3} - \frac{3}{8}$$

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

(2marks)

a. Find the length of its side in centimeters. (1litre = 1000cm^3)



(3marks)

(3marks)

b.	Workout its total surface area.	(2marks)
		-
	·	
		9
32.	A head teacher's office is 24metres East of the main hall and a	P 7
02.	block is 32metres North of the head teacher's office.	
a.	Draw a sketch diagram to show the position of the 3 places (inc	licate
	the northern direction)	(1mark)
	,	
		4
		*
b.	Using a scale of 1cm to represent 4metres , draw an accurate d	
	and measure the shortest distance between the P.7 block and the	he main
	hall.	
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	·	Fe ¹
	<u> </u>	(4marks)
	*** END ***	