

## KIJONGO SUB-COUNTY PRE-MOCK EXAMS 2024

## **MATHEMATICS**

Time Allowed: 2 hours 30 minutes

	Index No.	EMIS No.			Personal No.				
					1				
Ca	ındidate's Name:								
Ca	ındidate's Signatur	e:							
Sc	chool Name:								
Di	strict ID:								
Read the following instructions carefully:					: [	FOR EXAMINERS'			
1.	Do not forget to writ district name on t		hool	and		USE ONLY			
2.	This paper has two sections: A and B. Section A has 20 questions and Section B has 12 questions. The paper has 15 printed pages altogether					Qn.No.	MARKS	EXR'S NO.	
						1 - 5			
						6 - 10	al any and		
3.					ces	11 - 15	- Attended		
1	All working must be done using a blue			ue or		16 - 20			
4.	black ball point pen or ink. Any work done in pencil other than graphs and diagrams will					21 - 22			1
	in pencil other than g not be marked.	raphs and	alagi	ams wii	1	23 - 24			
5.	No calculators are	allowed i	allowed in the examination			25 - 20	5		
	room.					27 - 2	8		
6.	Unnecessary <b>changes</b> in your work handwriting that cannot easily be re			and ead may	,	29 - 3	0		
	lead to loss of marks	irks.				31 - 3	2		
7.	o not fill anything in the table indicated:  'For Examiners' Use only" and boxes					TOTA	L		

inside the question paper.

**Turn Over** 

## **SECTION A: 40 MARKS**

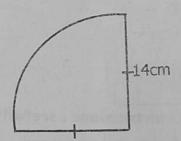
Answer all questions in this Section Questions 1 to 20 carry two marks each

1. Simplify: 13 + 14 - 12

6. Mubende Public School will play a football match with Kyegegwa Junior School. What is the probability that Mubende Public School will win?

2. Workout: -8 + +5

- 7. Workout the perimeter of the figure below. (Use  $\pi$  as  $\frac{22}{7}$ )
- 3. Given that Set **D** = {q, e, i, w} and Set **K** = {a, e, i, o, u}. How many elements make up the union of **D** and **K**?

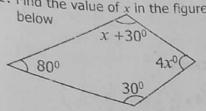


- 8.By selling a phone jacket at Sh.7,000, a trader realizes a profit of Sh.2,000. Calculate his percentage profit.
- 4. Convert 34 millimetres to centimetres.
- 9. Workout: 1 1 0two X 1 1two

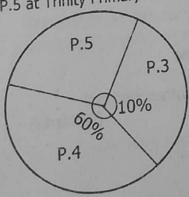
5. Solve: 14 - 2p = 4

10. In a stationary shop,Sh.5,000 can buy 3 books. How much money can buy 9 books?

11. Find the value of x in the figure below



- 12. Find the median of  $\frac{1}{3}$ ,  $\frac{1}{8}$ ,  $\frac{1}{4}$  and
  - 13. A woman was born in 46BC and died in 21AD. How old was at the time of her death?
  - 14. A tailor bought 10.5 metres of cloth. She cut the cloth into small piecesof cloths  $1\frac{1}{2}$  metres each. How many small pieces of cloths did she cut out?
    - 15. The Pie-Chart below shows the number of pupils in P.3, P.4 and P.5 at Trinity Primary School.



If P.4 and P.5 have 360 pupils altogether, how many pupils are in P.3?

- 16. Simplify:
  - 17. In what ratio must 32 mangoes be reduced to 28 mangoes?
  - 18. Without carrying out actual division, prove that 553 is exactly divisible by 7.
  - 19. David uses 48 minutes to ride from his home to the workplace which is at a distance of 32 kilometres. Calculate in Km/h the speed at which he rides.

20. Workout the cube root of 216.

## SECTION B: 60 MARKS

Answer **all** questions in this section Marks for each question are indicated in brackets.

- 21. (a) Use distributive property to workout:  $(137 \div 8) (9 \div 8)$
- (b) Find the sum of  $\left(4 \times \frac{1}{10}\right)$  and  $\left(9 \times \frac{1}{10}\right)$

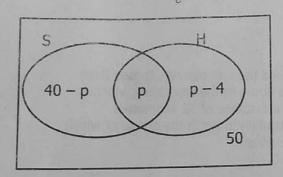
( 02marks)

(03 marks)

22. At Little Lijos Kindergarten, pupils play skipping (S), Hide and Seek (H) and other games as shown in the Venn diagram. The number of pupils playing Hide and Seek is as much as those playing other games.

Find the number of pupils in the school.

(04 Mark

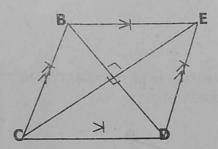


23. The average weight of 11 football players is 70kg and the average weight of the players their coach is 72kg. calculate the weight of the team coach. (04 Ma

24. Company **F** pays its workers' allowances every after 14 days, while Company **G** pays the workers' allowances after 16 days.

(a) Find the minimum number of days taken by both companies to pay their workers' allowances at once. (03 Mark

(b) On which day of the week do the two companies pay their workers at once? (02 mark



- (a) Workout the area of the figure BCDE. (02 Marks)
- (b) Calculate the perimeter of the figuration above. (04 Marks)
- 27. The exchange rates for Kenya Shillings (Ksh) to Uganda Shillings (UgSh) and United States Dollars (US\$) to Uganda Shillings are shown below.

$$Ksh.1 = Ugsh.34$$

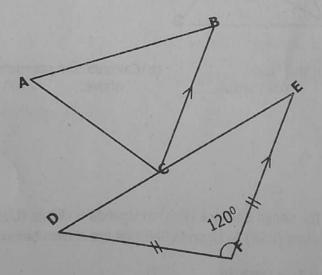
$$US$ 1 = Ugsh.3,800$$

(a) How many Kenya Shillings can one get from US\$ 6,800?

(03 Marks)

- (b) If the cost of a suitcase is US\$.50, how much does it cost in Uganda Shillings? (02 Marks)
- 28. Rashell is thrice Joan's age while Martha is 5 years older than Joan.
  In four years to come, Rashell and Joan will be twice as old as
  Martha. How old is Rashell? (05 Marks)

29. In the diagram below, line **BC** is parallel to **EF**. Angel **ACD** is 10° more than angle **ACB**. **EFD** is an Isosceles triangle.



(a) Find the size of angle FEC.

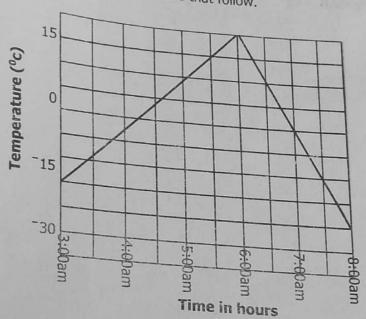
(02 Marks)

(b) Calculate the size of the angle **ACD**.

(03 Marks)



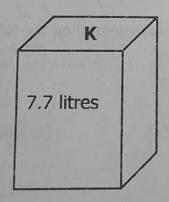
The graph below shows the variations in the temperatures at the carefully and then answer the questions that follow.

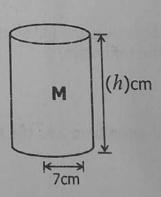


- (a) Write the scale of the graph on the vertical axis. (02 Marks)
- (b) What was the maximum temperature experienced on the top of the mountain? (01 Mark)
- (c) At what time was the temperature  $15^{\circ}$ c? (01 Mark)
- (d) Calculate the temperature range. (02 Marks)

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- (b) Drop a perpendicular from point **G** to meet line **BA** at **W**. (01 Mark)
- 32. A rectangular milk tank **K** below contains 7.7 litres of milk. All the milk is then collected in 5 small cylindrical containers **M** each of radius 7cm and unknown height (h)





Calculate the height of the small container **M**. (Use  $\pi$  as  $\frac{22}{7}$ )

(05 Marks