## KAMPALA ARCHDIOCESE CATHOLIC PRIMARY SCHOOLS (KAPSMA)

PRIMARY SEVEN PRE - P.L.E EXAMINATION

#### 2024

#### **MATHEMATICS**

Time Allowed: 2 hours 30 minutes

Random No.				Personal No.			

Candidate's Name:	South of "espectation have supported	Company and 155
Candidate's Signature:	compand admissin in names	JITEMO SULINI
District ID No.	Madaga Maria	
Industrial Co.		

## Read the following instructions carefully:

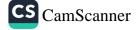
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- Do not write your school or District name anywhere on this Paper
- This paper has two sections A and B
   Section A has 20 Questions and Section B has 12 Questions.
   This paper has 14 printed pages.
- Answer all questions. All the working for both sections A and B must be written in the spaces provided.
- 4. All working must be done using a blue or black ball point Pen or ink. Any work done in pencil other than on graph and Drawings will not be marked.
- 5. No calculators are allowed in the examination room.
- 6. Unnecessary **changes** in your work and handwriting that cannot be read easily many lead to **loss of marks**.
- 7. Do not fill anything in the table indicated: 
  'FOR EXAMINERS' USE ONLY'

FOR EXAMINERS USE ONLY						
Qn. No	MARKS	EXR'S N				
1-5						
6 - 10	ine ne					
11 - 15						
16 - 20						
21 - 22						
23 - 24						
25 - 26						
27 - 28	Set n=0	344				
29 - 30	JII DINI					
31 - 32						
Total		2 3 4				

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# SECTION A: 40 MARKS

Answer all the questions in this section.

Questions 1 to 20 carry two marks each.

2. Write "twenty thousand eighteen" in figures

The height of mountain Rwenzori is 5.482 x 10<sup>3</sup> meters. Express the above height as a single numeral. (2 Marks)

5. Set p=(Prime numbers between 80 and 90)

Find n(p)

The cost of 2/3 kg of rice at Nakasero market is shs. 2400. Find the cost of 4kg of rice at the same rate.

(2 Marks)

7. Express 0.1666...as a common fraction in its lowest term. (2 Marks)

Find the value of g in the diagram below. 8.

(2 Marks)



Work out: 110two x 11two 9.

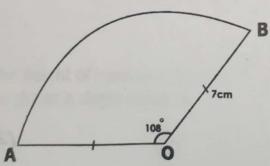
(2 Marks)

The average age of Alex, Aminah and Joan is 17 years. If Aminah is 9 years 10. old, Calculate the average age of Alex and Joan. (2 Marks)

. Express 5.2 kg as grammes. (2 Marks) 11.

12. Workout (55x1.5) + (1.5 x 45) using distributive property. (2 Marks)

- Find the square of the next number in the sequence below. 13. 2, 3, 5, 7, \_\_\_\_
- Calculate the length of arc AB in the figure below (use n=22/7) 14. (2 Marks)



Find the number that was increased in the ratio 5:2 so as to get 450. 15.

16. Using a pair of compasses, a pencil and a ruler only, construct an angel of 105° in the space below.

(2 Marks)

17. A man was born in **15BC** and died at the age of **72** years. In which year did he die?

(2 Marks)

18. Solve the inequality:  $2 - 5y \le 22$ .

(2 Marks)

19. Find the value of 17 hundredths.

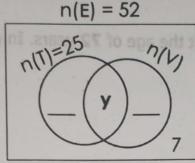
(2 Marks)

20. Draw a Venn diagram and show that all boys (B) are males (M)

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- 21. In a group of **52** boys, they all play football(F), **25** of them play Tennis (**T**) and football. **20** play Football and Volleyball (**V**) only, (**9** + **y**) boys play football and tennis only, **Y** boys play all the three games and **7** boys play football only.
  - a) Complete the Venn diagram below.

(2 Marks)



b) Find the number of boys who play only two games.

(3 Marks)

In a school, there are **600** girls and **720** boys, at the beginning of term three, the number of boys increased by **20%** and the number of girls reduced by **10%**.

Find the new total enrolment of the school.

(4 Marks)

- 23. Opio's water meter reading at the beginning of the month of June was **000480** and at the end of the month the reading was **000573**.
  - a) How many units of water did he use that month?

(2 Marks)

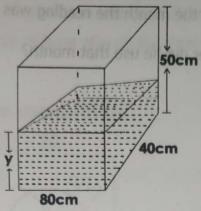
b) If each unit costs shs. 5000, how much money did he spend on water in the month of June.

(2 Marks)

- 24. During the "Enkuuka" party organized by CBS Radio Buganda, each adult was requested to pay shs. 6000 and each child was requested to pay half the price of an adult as a way of giving back to the listeners. If shs. 162,000,000 was collected in total.
  - a) How many children attended the above party if **34000** people attended altogether.

(4 Marks)

25. The rectangular water tank below is holding 96 litres of water. Study it carefully and use it to answer questions that follow



a) Find the value of y in centimeters

(3 Marks)

b) How many litres of water are needed to fill the above water tank.

(syram E) the "Enkuruka" party organized by CBS Radio Buganda, each adult

26. a) Work out: 4.8 x 1.2

 $0.3 \times 0.4$ 

(3 Marks)

b) Simplify:  $\frac{5}{7} \div \frac{1}{2} + \frac{1}{3}$ 

(2 Marks)

- 27. Kawempe town is 1500 metres North of Bwaise Town. Mpererewe town is on a bearing of 120° from Kawempe Town and on a bearing of 040° from Bwaise town.
  - a) Draw a sketch diagram to represent the location of the three towns.

(1 Mark)

b) Using a scale of 1cm to represent 300metres. Construct an accurate diagram.

(3 Marks)

**CS** CamScanner

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c) F	find the distance in metres	between	<b>Bwaise</b>	town	and	Mpererwe	town.
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(2 Marks)

- 28. A bus operating along kampala masaka road carried **240** people in only **3** trips. In each trip, it carried **10** people less than the previous one.
  - a) Find the number of people the bus carried in the first trip.

(3 Marks)

b) If each passenger paid **shs. 2000** from Kampala to Masaka, how much money was collected in the last trip? (2 Marks)

- 29. Club obligato in Kampala has a rectangular dance floor of **27** meters in length and **20 meters** in breadth. During the renovation exercise, the management used square tiles of **30cm** to cover the floor.
  - a) How many tiles did the management use to renovate the above floor.

(4 Marks)

b) If the cost of each tile was **shs. 2400**, how much money was spent on buying all the tiles.

(2 Marks)

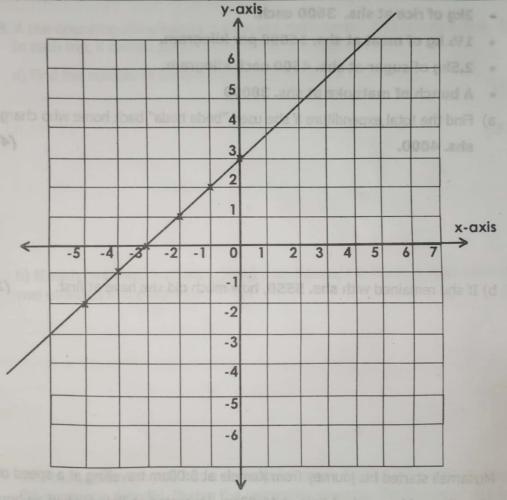
- 30. A house maid went shopping and bought the following items.
  - · 2kg of rice at shs. 3600 each.
  - 11/2 kg of meat at shs. 16000 per kilogram.
  - · 2.5kg of sugar at shs. 4500 each kilogram.
  - A bunch of matooke at shs. 38000
  - a) Find the total expenditure if she used "boda boda" back home who charged her shs. 4000. (4 Marks)

b) If she remained with shs. 5550, how much did she have at first. (1 Mark)

- 31. Musamali started his journey from Kampla at 8:00am travelling at a speed of 45km/hr and he reached Jinja at 10:00am. He rested at Jinja for half an hour so as to have breakfast and later continued to Mbale a distance of 160km driving at 80km/hr.
  - a) How far is Mbale from Kampala.

(3 Marks)

#### Study the graph below carefully and use it to answer question that follow 32.



### a) Complete the table below correctly

X	-5	-4	-3				
У	-2	-1	0	- Eleger	Home Ke	<del>pladM e</del>	(3 Marks)

b) Using the above co-ordinates, state he equation of the line