PRIMARY SEVEN MOCK EXAMINATION 2024 MATHEMATICS

Time allowed: 2 Hours 30 Minutes

	RANDOM No.			ī	Personai No.	
Index number						
Candidate's Name:						
Candidates' Signat	ure:					

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

READ THE FOLLOWING INSTRUCTIONS CAREFULLY:

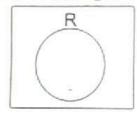
- 1. This paper has two section: A and B.
- 2. Section A has 20 questions (40 marks)
- 3. Section B has 12 questions (60 marks)
- Attempt all questions in both sections.
 All answers to all questions must be written in the space provided.
- All answers must be written using blue or blackball pen or lnk. Only diagrams and graph work must be done in pencil.
- 6 Unnecessary crossing of work will lead to loss of marks.
- Any handwriting that cannot easily be read may lead to loss of marks.
- Do not fill anything in the boxes indicated: "FOR EXAMINER'S USE ONLY"

QN. NO.	MARK	INITIALS
1-5		
6 -10		
11-15		
16-20		
21-22		
23-24		
25-26		
27-28		
29-30		
31-32		

Kayunga District Examination Board (2024 Moch Examination)

SECTION A: 40 MARKS Attempt all questions in this section. Questions 1 to 2 carry two marks each.

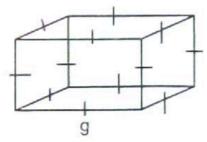
- 1. Divide: 16:4
- 2. Write 12013 in figures.
- 3. On the venn diagram below, shade set R1



- 3. Simplify: -6 -+4
- 5. Find the product of the first and the missing number in the serie below.

- The examination that started at 10:30 am lasted for 2¹/₄ hours. Express the ending time in 24 hours clock system.
- 7. In the space below, construct an angle of 105°.

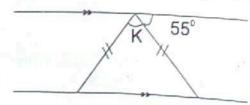
- 8. Given that $m = \frac{1}{4}$ and $n = \frac{1}{6}$, Find the value $\frac{m}{n}$
- 9. If represents 8 pencils. Draw pictures to represent 32 pencils.
- 10. Given that 1 us dollar costs ug sh 4000 and Juma had ug sh 360000. How many us dollars would Juma pay for the bicycle at the same rate?
- 11. Below is a cube whose total surface Area is 600m2.



Find the value of g.

12. A subaru car uses 8 litres of fuel to cover a distance of 40km. How many litres of fuel Joes it need to move a distance of 120km?

- 13. Given that set Q has 31 proper subsets, how many elements are in set Q?
- 14. Convert 14 to a decimal base.
- 15. Workout $2\frac{1}{2}$ % as a fraction in its lowest terms.
- 16. Solve for x in $5^{2x} \div 5^{x} = 125$
- 17. Subtract 3m-5 from 4m+7
- 18. Find the value of K in the diagram below.



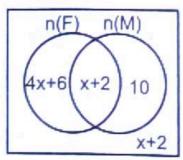
- 19. A jerrycan was ½ full of water, when 24 litres were added it became ½ full. Calculate the capacity of the jerrycan.
- 20. Workout the average of 3, 4k, 5, 0 and K+7.

SECTION B: 60MARKS

Attempt all questions in this section

(3 marks)

- b) Express 0.2777--- as a common simplified fraction. (2 marks)
- 22. At the teachers party, Fanta (F) and Mirinda (M) were served as seen in the venn diagram below.

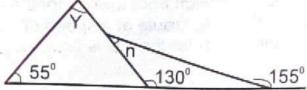


a) If the teachers who took Fanta only were the same as those who did not take Fanta. Find the value of x.

 (2marks)

b) Workout the probability of choosing a teacher who took both of open up a dance at random. (3 m	drinks arks)
23. Study the diagram below and use the information on it to answer questions that may follow. 4r-6cm = 3r-1cm	r the
a) Find the value of r (2 m	narks)
b) Calculate for the length of arc PQ. (2 n	narks)
	marks)
	6

25. Below is a diagram, study it carefully and answer the questions about it.



a) Find the size of angles marked:

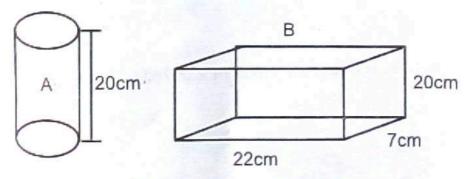


(2 marks)

(ii) n

(2 marks)

26. Below are solids A and B with the same amount of fuel.



a) Find radius of solid A.

(3 marks)

b) Calculate the T.S.A of solid A. (use $\overline{II} = \underline{22}$)

(2 marks)

	7. A cyclist started his journey from town P at 6: 50km/hr for 2 hours to town Q where he rester continued to town R a distance of 105km from then returned to town Q using the same route a) Find the average speed of the cyclist for the	m town Q for 3	hours and f 105km/hr.	
28.	a)Write 2624 in scientific notation.		(2 marks)	
ł	b) Find the sum of the value 6 and the value of	of 2 in 7624.	(3 marks)	
29.	During the population census held in May 20: 6000 people, of these $\frac{2}{3}$ were females and $\frac{1}{2}$ and a $\frac{1}{4}$ of the males were boys. a) Calculate the total number of boys and girls	24, a certain vof the females	village had s were girls e. (4 marks)	

b) Find the ratio of men to women in the village.

(1 mark)

30.a) solve for f in 2(2f+3)-3(f-6)=30

(2marks)

b) Babirye is 3 times as old as Kigongo. The product of their age is 48 years how old is each of them now? (3marks)

31. Mukono is 60km away from Iganga on a bearing 045° and kampala is 45km from Mukono on a bearing of 150°. Using a scale of 1cm represents 10km.

a) Draw an accurate diagram to show the location of the three towns.

(4 marks)

b) Find the shortest distance from Iganga to Kampala in km. (1 marks)

32. Given that 3y+2=x, complete the table correctly.

Х	8		-4	
у		2		0

(4 marks)

