KAMPALA ARCHDIOCESE CATHOLIC PRIMARY SCHOOLS (KAPSMA)

PRIMARY SEVEN MOCK EXAMINATION

2024

MATHEMATICS

Personal No.

Time Allowed: 2 hours 30 minutes

- 1											
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Candidate	's Name	:	••••••	••••••							
Candidate	's Signa	ture:				······································			******	*** *** *** ***.	
District I	D No.						A				

Read the following instructions carefully:

Random No.

- 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.
 The paper has 12 printed pages.
- Answer all questions. All the working for both sections A and B must be written in the spaces provided.
- All working must be done using a blue or black ball point pen or ink. Any work done in pencil other than on graphs and drawings will not be marked.
- 5. No calculators are allowed in the examination room.
- Unnecessary changes in your work and handwriting that cannot be read easily may lead to loss of marks.
- 7. Do not fill anything in the table indicated:

'FOR EXAMINERS' USE ONLY'

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FOR EXAMINERS USE ONLY					
Qn. No	MARKS	EXR'S NO.			
1-5					
6-10					
11-15					
16-20					
21-22					
23-24					
25-26					
27-28					
29-30					
31-32					
Total					

TURN OVER



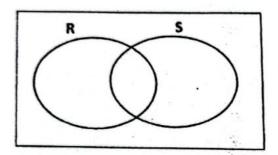
SECTION A: 40 MARKS

Answer all the questions in this section.

Questions 1 to 20 carry two marks each.

1. Work out: 12 ÷ 2

In the Venn diagram below shade the region representing members of complement of set R.



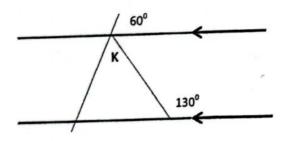
- 3. Write 145 in Roman numerals.
- 4. Find the next number in the sequence below.

20, 19, 16, 10 _____

5. **Simplify:** $|\frac{1}{2} - \frac{3}{5}|$

6. The temperature on the top of the mountain was ⁻6° c in the morning.
In the evening the temperature dropped by 2°c. Find the new temperature on the top of the mountain in the evening.

- 7. Work out the mean of 5y, 8 3y and 20.
- Study the diagram below and Use it to answer the following questions.



Find the value of k

9. A class discussion which started at 12:20 pm ended at 1:30 pm. For how long did the class discussion last?

 A business man sold a radio at Shs. 91,000 making a percentage profit of 30%. Find his buying price.

11. A farmer walked around her circular garden of diameter **14meters**. Find the distance the farmer covered (Take $\pi = \frac{22}{7}$)

- 12. Simplify: 5-2(k-1)
- 13. Given that **T** = {all prime numbers between 30 and 40} Find **n(T)**

14. Work out: 1 0 1 two + 11 two

 $5. \text{ If } PF_K = \{2_1, 2_2, 3_1\} \text{ and } PF_W \{2_1, 3_1, 5_1\}$

Work out: the HCF of k and w

16. Work out: 80 + 20 ÷ 10

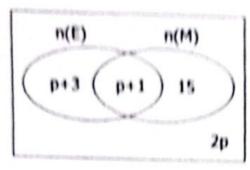
17. Find the value of 9.65 x 10-3

18. Using a ruler a pencil and a pair of compasses only construct an angle of 120°



19. A motorist travelled at a speed of 20m/sec. Calculate his speed	in kilometers
per hour.	
 A mother is 3 times as old as her daughter. Find the daughter's mother is 3x + 4 years. 	age if the
SECTIONB: 60 MARKS	
Answer all the questions in this section.	
Marks for each question are indicated in brackets.	
1. (a) Work out the product of the value of 4 in figure 8475 and	the place value
of 9 in the figure 0.09	(3marks)
(b) Expand 70024 using values.	(2marks)
	(aa.

the Venn diagram below shows the number of pupils who like Mathematics (M) and English (E)



(a) Find the value of P if 52 pupils like English.

(Imarks)

(b) Find the number of pupils in the whole class.

(2marks)

23. a) A match box contains 35 match sticks and 10 match boxes make a packet.
If 12 packets fill a carton, find the number of match sticks in a carton.

(2marks)

(b) If a packet of match boxes is shared among 7 people, how many match sticks will every person receive?

(2marks)

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(3marks)

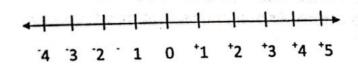
24. (a) Work out: 0.75 of 10 - 84.5 ÷10

(b)
$$8 \div \frac{2}{3}$$
 of $\frac{3}{4}$

(2marks)

25. (a) Show: $^{-3}$ - $^{+4}$ = $^{-7}$ on the number line below;

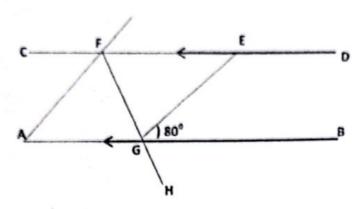
(3marks)



(b) Our term two started on Monday 27th May 2024. If the midterm two examinations are to be done on 12th July 2024, on what day of the week will the examination be done?

(3marks)

In the diagram below AB is parallel to CD, angle AGH = 1500 angle EGB is equal; to angle CFA. Study it and use it to answer the questions.



(a) Find angle AFE

(3marks)

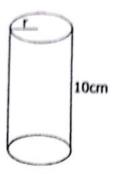
(b) Find angle GED

(2marks)

- 27. A motor cyclist traveling at a speed of 40km/hr started the journey from town A at 9:00a.m and reached town B at 12:00 noon. He then continued to town C for a distance of 100km in 2 hours.
 - (a) How far is town C from town A.

(3marks)

28. The cylindrical tin below has a volume of 6160 cm³



(a) Find the radius of the cylindrical tin.($\pi = \frac{22}{7}$).

(3marks)

(b) Calculate the total surface area of the cylindrical tin.

(2marks)

29. (a) A chair costs twice as much as a door and a window costs **Shs. 5,000** less than a door. If their total cost is **Shs. 35,000** how much is the cost of a chair?

(b) Solve for **m**:
$$\frac{1}{3}$$
(m + 2) = $1\frac{1}{2}$

(2marks)

30. A father had **Shs. 800,000** and used 1/4 of it to pay school fees for his daughter. He used 1/2 of the remaining money to buy food for his family and banked the rest. How much money was banked? (4marks)

31. a) Using a pair of compasses a pencil and a ruler only. Construct a rhombus ABCD in which angle $ABC = 60^{\circ}$ and of length 6cm. (4marks)

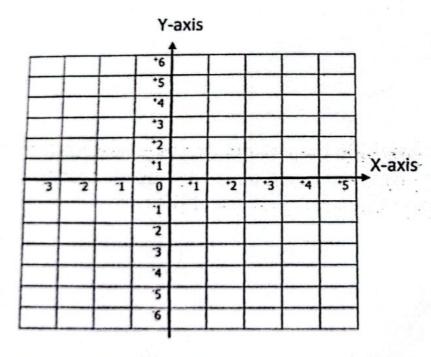
(b) Measure the diagonal AC.

(1mark)

32. (a) Plot the following points on the grid below.

 $R(^{+}1, ^{+}2)$, $S(^{-}1, 0)$, $T(^{+}1, ^{-}3)$ and $U(^{+}3, 0)$

(4marks)



(b) Join the points to form a polygon and calculate the area of the polygon formed given that 1 cm = 1 square (2marks)

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