

HILLSIDE PRIMARY SCHOOL

EXAMINATIONS

2023

MATHEMATICS (SET FOUR)

	Time Allowed: 2 F	lours 30 Mi	nutes			
	Random No.		Personal No.			
Index No.						
Candidate's N	ame		Str	eam	•••••••	
Candidate's Sig	gnature	•••••			r	
EMIS No						
District Name						
Read the following instructions carefully: 1. The paper has two sections: A and B.			FOR EXAMINERS' USE ONLY			
Section A has 20 has 12 question	O questions and Section B s	Q	n. No.	MARKS	EXRS'	
2. Answer all questions. All answers to both			- 5			
sections A and B spaces provided	must be written in the	6	- 10			
		1	1- 15			
	t be done using a blue or pen or fountain pen. Any wo	rk	6- 20			
	other than graphs and diagrams	ams 2	1- 22			
	•		3- 24			
4. No calculators of room.	ire allowed in the examination	on 2	5- 26			

5. Unnecessary changes in work may lead to

indicated: "For Examiners' Use Only"

read may lead to loss of marks. 6. Do not fill anything in boxes

and those inside the paper.

loss of marks. Any handwriting that cannot easily be

Turn Over

27- 28

29- 30

31- 32

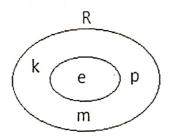
TOTAL

SECTION A: (40marks)

1. Workout: 42 + 53

2. Write 40,402 in words

3. Calculate the number of subsets in set R below



4. Find the next number in the sequence below; 42, 40, 36, 34, 30, ___

5. Work out: $1\frac{2}{5} \div \frac{1}{5}$

6. Take **5w-4** away from **9+7w**

7. Simplify; 11-5

8. Using a ruler, a pencil and a pair of compasses only, construct an angle of 240°

9. In Gogonyo village, there are 65 huts. Given that represents 13 huts, draw a pictograph to represent the above information

10. Simplify:
$$5 - 9 + 12 \div 2$$

11. What percentage of the figure below is **un-shaded**?



12. Express 54 as a product of its prime factors.

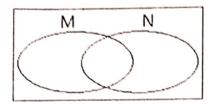
13. Given that a US dollar costs Ug.sh. 3650, find the amount in Uganda shillings one can pay for a TV set which costs US dollars 120.

14. Find the value of 2 in 1203_{four}

15. The Non-teaching staff meeting at Hillside Schools ended at 1:25pm. If it lasted for three hours and forty minutes, when did it start?

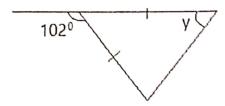
16. Solve the equation: 2(1 + h) = 12

17. Shade(N - M)' in the diagram below

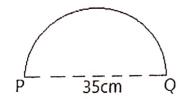


18. Eight boys take 10 days to slash the compound. How much longer will four boys take to slash the same compound working at the same rate?

19. Study the figure below and calculate the value of y



20. Find the length of the arc PQ in the figure below



SECTION B: (60 marks)

- 21. The sum of three consecutive odd numbers is 117.
 - a) Find the numbers.

(4 marks)

b) Express the largest number in Roman numerals.

(1 mark)

22. A wheel barrow tyre covered a distance of 1.32km after making 1200 revolutions. Calculate its diameter (4 marks)

23. a) Simplify:
$$\frac{3.6-2.52}{0.4 \times 0.018}$$

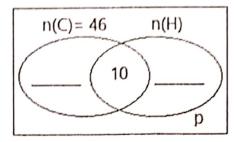
(3 marks)

b) Simplify:
$$\frac{2}{3} - \frac{1}{6}$$
 of $1\frac{1}{2}$

(2 marks)

- 24. In a group of 80 adults, 46 were vaccinated against Covid 19 (C), (p+6) were vaccinated against Hepatitis B (H) only, p were vaccinated against other diseases, while 10 were vaccinated against both Covid 19 and Hepatitis B
 - a) Use the above information to complete the Venn diagram below.

$$n(\varepsilon) = 80$$
 (2 marks)

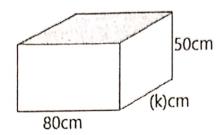


b) Find the value of p.

(3 marks)

c) If an adult is picked from the group at random, what is the chance of picking one who was vaccinated against Hepatitis B? (1 mark)

25. Given that the area of the shaded region is 5600cm²



a) Find the value of k

(3 marks)

b) Calculate its capacity

(2 marks)

26. The table below shows the denominations, number of notes and amount.

Complete it carefully with correct working, if the grand total is sh. 154,000.

(5 marks)

Denominations	Number of notes	Amount	
One thousand shilling note	15	Sh. 15,000	
Two thousand shilling note	7	Sh	
Five thousand shilling note		Sh. 45,000	
note	4	Sh. 40,000	
Twenty thousand shilling note	Sh		
TOTAL	Sh. 154,000		

27. Kakwezi was given a task of serving pencils by her class teacher. She served 6pencils per pupil, 1 pencil remained, she decided to serve 5 pencils per pupil and 4 remained. She got annoyed gave 7pencils to every pupil and nothing remained. What was the least number of pupils Kakwezi served?

(4 marks)

- 28. Acio allocated $\frac{1}{2}$ of her land to Achelam, $\frac{1}{4}$ of the remainder to Opiko and she remained with the rest.
 - a) Find the fraction allocated to Opiko.

(3 marks)

b) If Acio remained with 2.1 hectares, how much land did she have at first? (2 marks)

- 29. Esekuna's age is a quarter of that of Suruni. In 6 years' time, Suruni's age will be twice that of Esekuna.
 - a) How old is Esekuna now?

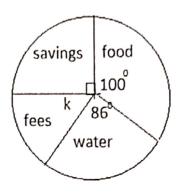
(3 marks)

30. a) Using a pair of compasses, a ruler and a well sharpened pencil, construct triangle PMK where PM = 4cm, angle PMK = 120^{0} and MK = 7cm. (4 marks)

b) Draw a perpendicular line from point M to meet line PK at N
(1 mark)

13

31. The pie chart below shows Mr Kabuye's weekly savings and expenditure. Use it to answer questions that follow.



a) Find the angle sector for fees.

(3 marks)

b) If his weekly earnings is sh. 54,000, how much does he save in a month? (3 marks)

- 32. Masete left town Q driving at a steady speed of 84km/hr for $1\frac{1}{4}$ hours and then rested for 15 minutes for the engine to cool. He then continued with his journey driving at a steady speed of 60km/hr and covered the remaining 150km.
 - a) Find the distance he covered before resting.

(2 marks)

b) Calculate Masete's average speed for the whole journey. (3marks)

END