



HILLSIDE PRIMARY SCHOOL-NAALYA
MID TERM TWO EXAMINATIONS

2023

MATHEMATICS (Set Four)

Time Allowed: 2 Hours 30 Minutes

Index No.

--	--	--	--	--	--	--	--	--

Candidate's Name.....

Candidate's Signature.....

EMIS No..... **Stream**

District

Read the following instructions carefully:

1. The paper has **two** sections: **A** and **B**. Section **A** has 20 questions and section **B** has 12 questions. The paper has 12 pages altogether.
2. All working for both sections A and B must be shown in the spaces provided
3. **All** working must be done using a blue or black ball-point pen ink or fountain pen. Any work done in pencils other than graphs and diagrams will **not** be marked.
4. **No calculators** are allowed in the examination room.
5. Unnecessary alterations/changes of work may lead to **loss** of marks.
6. Any handwriting that cannot easily be read may lead to **loss** of marks.
7. Do **not** fill anything in boxes indicated:
"For Examiners' Use Only. "

FOR EXAMINERS' USE ONLY

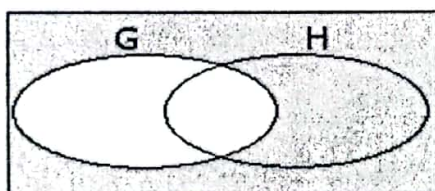
Qn. No.	MARKS	EXRS' NO
1-5		
6-10		
11-15		
16-20		
21-22		
23-24		
25-26		
27-28		
29-30		
31-32		
TOTAL		

SECTION A: (40 Marks)

1. Workout : $24 \div 2$

2. Write "**three hundred one**" in figures

3. Describe the **un-shaded** part on the Venn diagram below



4. Work out: $8 + -2$

5. Express 4:30 pm as a 24- hour clock time

6. Solve: $\frac{1}{2}k - 2 = 3$

7. Batte is 52 years old. Write his age in Roman numerals
8. Wasike bought 6 litres of honey. He later gave it out to children who shared it all and each received quarter litre. How many children did Wasike give honey?
9. Increase sh. 12,000 by 10%
10. Find the mean of $2y$, $y+4$, 6 and $y-2$
11. If 12 pens cost sh. 9600. What is the total cost of 8 similar books at the same rate?

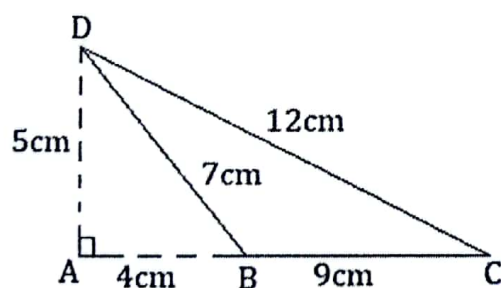
12. The bearing of town A from town B is 080° . Find the bearing of B from A

13. Solve for k in $2^k = 32$

14. After covering $\frac{3}{4}$ of her journey, Akide still had 9 kilometres to go. How long was her journey?

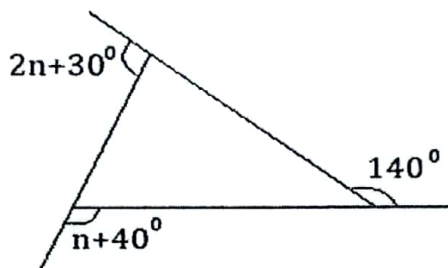
15. Express 246 in scientific notation.

16. Study the figure below and use it to the total distance around the shape BCD.



17. Two numbers are in a ratio of 6:7 respectively. When 12 is deducted from each number, the ratio becomes 3:4. Find the two numbers.

18. Use the diagram below to find the value of n .



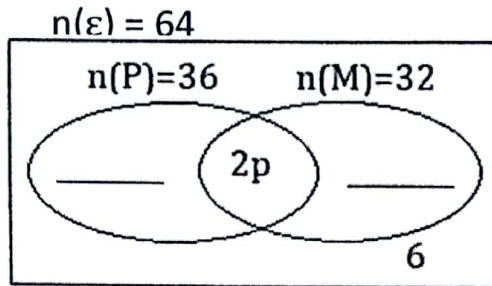
19. Given that 8 men can construct a hut in 5 days, how many more days are needed if the hut is to be constructed by 4 men?
20. How many revolutions can a wheel of a car of diameter 35cm make to cover a distance of 2.2 kilometers?

SECTION B: (60 Marks)

21. In a group of 64 children, all of them like rice (R), 36 children like rice and posho (P), 32 like rice and matooke (M), $2p$ like all the foodstuffs while 6 children like only one type.

a) Complete the Venn diagram below.

(02 marks)



b) Find the value of p .

(02 marks)

c) How many children like only two types of food stuff? **(02 marks)**

22. Work out the following;

(02 marks@)

a)

Hrs	Min
6	43
+ 3	27
<hr/>	
<hr/>	

b)

Weeks	Days
5	3
- 2	5
<hr/>	
<hr/>	

- c) A mathematics examination that took $3\frac{1}{12}$ hours started at 11:25 a.m. At what time did it end? **(02 marks)**

23. In a class of 420 pupils, $\frac{1}{4}$ of them are boys and the rest are girls.

- a) How many girls are there in the class? **(03 marks)**

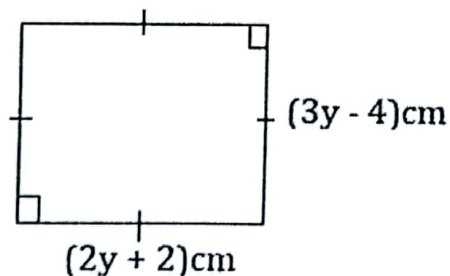
- b) Given that $\frac{1}{3}$ of the boys and $\frac{3}{5}$ of the girls like singing. How many pupils like singing in the whole class? **(03 marks)**

24. a) Using a ruler, a pencil and a pair of compasses, construct a triangle MKL where $KM = 5\text{cm}$, $\angle MKL = 120^\circ$ and $KL = 6\text{cm}$. **(04 marks)**

b) Measure line ML

(01 mark)

25. Use the figure below to answer the questions that follow.



- a) Find the value of y .

(02 marks)

b) Workout the area of the figure above.

(02 marks)

26. The sum of three consecutive even numbers is 120. If the middle number is h ,

a) Find the value of h .

(04 marks)

b) Write the first number in words.

(01 mark)

27. The interior angle of a regular polygon is 108° more than the exterior angle.

a) Calculate the size of each exterior angle

(03 marks)

b) How many sides has the polygon?

(02 marks)

28. a) Simplify: $\frac{2.4 \times 1.8}{0.12 \times 3.6}$

(03 marks)

b) Simplify : $1\frac{1}{2} - 2\frac{1}{4} \div 2\frac{3}{4}$

(02 marks)

29. Mugolo is five times as old as Opolot. Four years ago, the difference in their age was 24years. How old is Mugolo now?

(04 marks)

- 30. a) Mr. Engoru's car covers 8km per litre of petrol. How much money will it take him to cover a journey of 344km if each litre costs sh.5000?

(03 marks)

- b) Ongom used 30minutes to cover a certain distance a speed of 6km/hr.
How much longer would he take if he walked at 4km/hr? **(02 marks)**

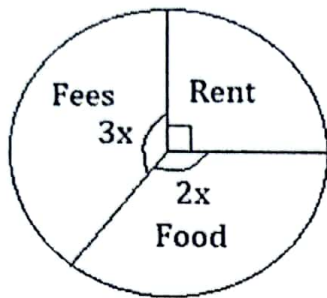
31. a) Increase 1200 in the ratio of 3:4

(03 marks)

- b) Express 60 as a ratio of 80

(02 marks)

32. The pie-chart below shows how Mr. Mbareba spends his wages of sh. 360,000



- a) Find the value of x .

(02 marks)

- b) How much more money does he spend on fees than on rent?

(03 marks)

END