

HILLSIDE PRIMARY SCHOOL

EXAMINATIONS 2023

MATHEMATICS (SET EIGHT)
Time Allowed: 2 Hours 30 Minutes

| Index No. | | | | | |
|---|---------|-------------------------|-------|-------|--|
| Candidate's Name | | Str | eam | | |
| Candidate's Signature | | | | | |
| EMIS No | | | | | |
| District Name | | | | | |
| Read the following instructions care | | | | | |
| The paper has two sections: A and B. Section A has 20 questions and Section B | | FOR EXAMINERS' USE ONLY | | | |
| has 12 questions | | Qn. No. | MARKS | EXRS' | |
| 2. Answer all questions. All answers to both sections A and B must be written in the spaces provided. | | 1- 5 | | | |
| | | 6- 10 | | | |
| 2. All 1: | | 11- 15 | | | |
| All working must be done using a blue or black ball-point pen or fountain pen. Any work | | 16- 20 | | | |
| written in pencil other than graphs and diagrawill not be marked | ms | 21- 22 | | | |
| | | 23- 24 | | | |
| No calculators are allowed in the examination room. | 1 1 | 25- 26 | | | |
| Unnecessary changes in work may lead to loss of marks. Any handwriting that cannot ea | sily be | 27- 28 | | | |
| read may lead to loss of marks. | y. | 29- 30 | | | |
| Do not fill anything in boxes indicated: "For Examiners' Use Only" | | 31- 32 | | | |
| and those incide the namer | | TOTAL | | | |

Turn Over

SECTION A: 40 MARKS

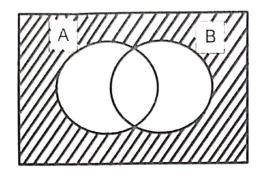
Answer all the questions in this section Questions 1 to 20 carry two marks each

| 1 | Work | out | 33 | ÷ | 3 |
|----|-------|-------|---------------|---|---|
| 1. | VVOIN | , out | \mathcal{I} | • | _ |

| 2. | Write 9009 in words | |
|----|---------------------|--|
| | | |
| | | |

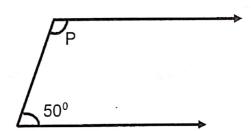
4. Increase sh. 6000 by 20%

5. Describe the shaded region in the Venn diagram below.



6. Express $\frac{2}{5}$ as a decimal

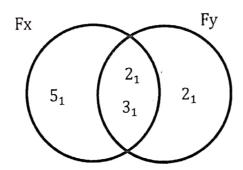
7. Find the value of p in the diagram



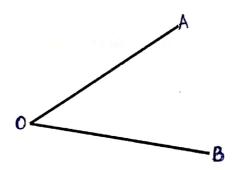
8. Joan bought a watch at Sh.8000 and sold it making a profit of Sh.1500. Find the selling price of the watch.

9. Work out: 1101two +11two

10. Use the Venn Diagram below to find GCF of Fx and Fy.



11. Using a ruler, pencil and pair of compasses only, bisect angle AOB Below:



12. Find the number whose standard form is 9.3×10^3

13. Use a distribution property to work out: (33.4 x9) – (9 x3.4)

14. 6 boys can paint a house in 24 hours. How many boys are needed in order to paint the same house in only 18 hours

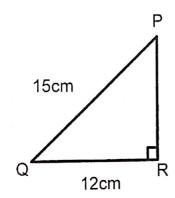
15. Solve: 2g - 6 = 12

16. Find the next number in the sequence: 5,7,10,15, 22.

17. Amou is the x person from either side of a line of 15 boys. Find the value of x.

18. How many meters are in 0.45km?

19. Find length PR in the triangle



20. Work out: $1\frac{1}{2} \times \frac{1}{3} \div \frac{1}{4}$

SECTION: B

Answer all questions in this section.

Marks for each part of the question are indicated in the brackets

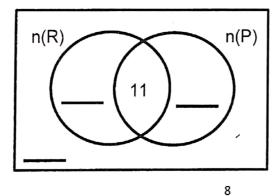
21. Write the number whose expanded form is given below; $(5X10^2) + (6X10^1) + (7X10^{-2})$.

(2marks)

Given the digits: 5,7 and 3. Write the largest number formed from the digits in words. (2marks)

- 22. At a party, k guests ate Rice (R) only, (K+4) ate posho (P) only. 11 guests ate both types of food, while 2 did not eat any of the two types of food.
- a) Complete the Venn diagram.

(3marks)



b) If 22 guests ate only one type of food, find the value of k.

(2 marks)

c) How many guests attended the party?

(1mark)

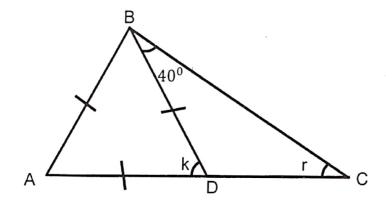
23. Solve
$$\frac{2}{5}$$
m - 3 = 5.

(3marks)

b) Subtract: r + 2 from 3r + 4

(2 marks)

24. The figure ABC below is a triangle. Study it and use it to answer questions that follow.



b) Find the size of angle marked k.

(2 marks)

c) Workout the value of angle r in the figure.

(2 marks)

25. The table below shows the items bought by Sultan from a market a) Complete the table. (4 marks)

| ITEM | QUANTITY | UNIT COST | TOTAL COST |
|----------|----------------|-----------|------------|
| Rice | 3kg | Sh. 3,500 | Sh |
| Sugar | $2\frac{1}{2}$ | Sh. | Sh. 5,000 |
| Paraffin | liters | Shs.3,600 | Sh.7,200 |
| | | | Sh |

b) If sultan was offered a discount of Sh. 2,300 on his total expenditure, find how much he paid (2 marks)

26. A teacher wrote three consecutive even numbers on the chalkboard.

The sum of the numbers he wrote is 36. If the middle number is p find the value of p. (3 marks)

b) Express 36 as a product of its prime factors

(2 marks)

12

- 27. Oguti borrowed Sh. 400,000 from a bank that offers an interest rate of $2\frac{1}{2}$ %Per month for a period of 9 moths.
 - a) Calculate the interest he is to pay back to the bank. (3 marks)

b) Find the total amount of money he will pay back after the period.

(2 marks)

28.a) Using a ruler, pencil and a pair of compasses only, construct quadrilateral WXYZ, such that \overline{WX} = 8cm, \overline{WZ} = 5.5cm and angle WXY = 45° (4 marks)

(1 mark)

29. A mathematics examination started at 8:30am and ended at 11:00am. For how long was the examination done?

(2 marks)

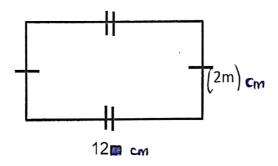
b) Express 15:15am into a 24 hour clock system.

(2marks)

- 30. Martha, Winnie and Catherine shared a certain amount of money in the ration of 2:5:3 respectively. If Winnie got sh. 60,000 more than Martha.
 - a) How much money did they share?

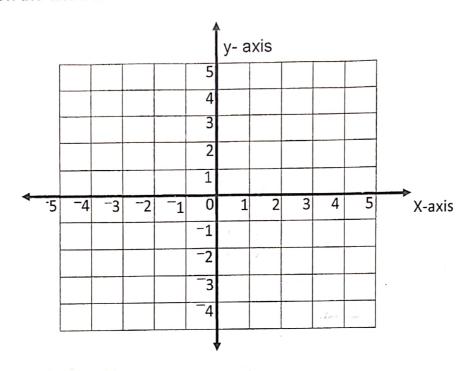
(3 marks)

31. The figure below is a rectangle. Use it to answer questions that follow.



a) If the perimeter of the rectangle is 48cm, find the value of m (3marks)

32. On the arid below:



b) Join the points A to B, B to C, C to D, D to A. Name the figure formed. (2 marks)

END