HILLSIDE PRIMARY SCHOOL

EXAMINATIONS
2023

MATHEMATICS (SET TWO)

Time Allowed: 2 Hours 30 Minutes

Index No.	Random No.						Personal No.		

Candidate's Name.....**Stream**.....

Candidate's Signature.....

EMIS No.....

District Name.....

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

2. Answer **all** questions. All answers to both sections **A** and **B** must be written in the spaces provided.

3. **All** working must be done using a blue or black ball-point pen or fountain pen. Any work written in pencil other than graphs and diagrams will not be marked

4. No calculators are allowed in the examination room.
5. Unnecessary changes in work may lead to loss of marks. Any handwriting that cannot easily be read may lead to loss of marks.
6. Do not fill anything in boxes indicated: **"For Examiners' Use Only"** and those inside the paper.

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 (40MARKS)

1. Work out: 68 ÷ 17

2. Write "Eighty thousand one" in words.

3. Calculate the area of the given figure below

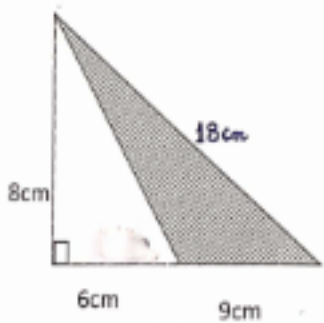
4. A circular flower garden has its total distance around as 88 metres, Find its area

5. Solve: $12 - 2k = 12$

6. If set P = {The first five square numbers}, find n(P)

7. Work out ; $0.8 \div 1.6$

8. Calculate the area of the shaded triangle.

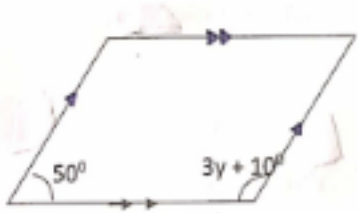


9. Wok out: $y + 3 = 2$ (finite 7)

10. What is the place value of 7 and place value of 5 in 43.2576?

11. Express $12\frac{1}{2}$ % as a simplified fraction.

12. In the diagram below, find the value of y in degrees.



13. Express 134_{five} to base seven.

14. The bearing of A from B is 070^0. What is the bearing of B from A?

15. Express 499 in Roman numerals.

16. A farmer planted trees 5metres apart along a rectangular garden measuring 38m by 12m. How many trees were planted?

17. Change 20m/sec to km/hr.

18. If ⊗ represents 13balls, draw balls to represent 78 balls.

19. The L.C.M of two numbers is 72 and their G.C.F is 12. If the first number is 24, find the second number.

20. A meeting lasting $1\frac{3}{4}$ hours ended at 10:30am. When did the meeting start?

SECTION B (60 MARKS)

21. A parent went to the shop and bought the following:

2 ½ kg of meat at sh.6,000 per kg.

2 bars of soap for 2,500 each.

250gm of spices at sh. 500 per 50gm.

a) Calculate her total expenditure. (4marks)

b) If she had a fifty-thousand-shilling note and was given a discount of 10%, find her change. (1mark)

22. The interior angle of a regular polygon is twice its exterior angle.

a) Name the polygon. (3marks)

b) Calculate its interior angle sum. (2marks)

23. Using a ruler and pair of compasses, construct a rhombus ABCD where angle ABC=60^0 and AB=6cm and drop a perpendicular bisector from point D to meet line AB at K and thereafter measure line DK (5marks)

24. Two bells are rung at intervals of 40 minutes and 50 minutes for the lower and upper primary respectively.

(a) After how many minutes will the two bells ring together? (3marks)

(b) If they last rung together at 8:00 a.m., at what time will they ring together again for the third time? (2marks)

25. A man bought 3 kg of sugar at sh. (p – 200) per kg and 5 kg of meat at sh. (2p + 600) each kg. If he spent sh. 67,400 on both items;

a) Find the value of p *(3 marks)*

b) How much money did he spend on sugar? *(1 mark)*

26. Work out: (88 x4) – (48 x 4). (2marks)

(b) Write 89572 in scientific form. (2mark)

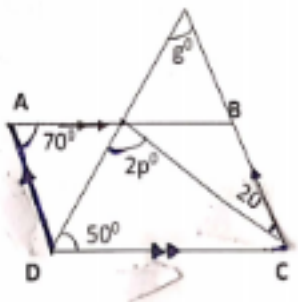
(c) Round off the smallest four-digit number formed by the digits 2, 0,6, and 5 to the nearest tens. (2marks)

27. During class days, $\frac{1}{3}$ of the parents visited the school on Monday, $\frac{2}{5}$ of the remainder visited on Tuesday and the rest on Wednesday.

(a) What fraction of parents visited the school on Wednesday? (3marks)

(b) If 96 parents visited the school on Tuesday and Wednesday, how many parents visited the school altogether? (2marks)

28. In the figure below, line AB is parallel to line DC. Find the value of p and g. (5marks)



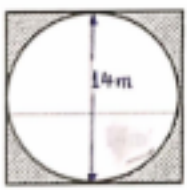
29. At a wedding party attended by 140 people, there were 20% more women than men. How many men attended the party?

(3 marks)

b). A man bought 35 pumpkins at sh 700000, at what price did he sell each pumpkin if he made a loss of 10 %? (2marks)

31. Calculate the area of the shaded part in the figure below.

(5 marks)



32. Motorist left town A for town B at an average speed of 80km/hr for 1½ hours. He rested for a half an hour then returned to town A at a steady speed of 60km/hr.

a) Find the distance between town A and town B *(2 marks)*

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

END