HILLSIDE PRIMARY SCHOOL
BEGINNING OF TERM TWO EXAMINATIONS
2024
MATHEMATICS (SET FIVE)
Time Allowed: *2 Hours 30 Minutes*

Index No.

Candidate's Name...

Candidate's Signature...

Stream...

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.

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		

FOR EXAMINERS' USE ONLY

Answer all questions in this section

Questions 1 to 20 carry 2 marks each

1. Work out: $46 + 53$.

2. What number has been expanded to give:
$$(4 \times 100) + (7 \times 10) + (3 \times 10^{-2}) + (8 \times 10^{-3})$$

3. Draw and shade $\frac{13}{5}$.

4. Find the mean of the following numbers: -6, 0, -4, 6, 5, 7, 3 and 5.

5. Draw a Venn diagram showing that pupils (P) and teachers (T) are part of the school(S).

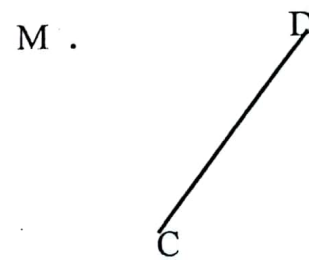6. Find the sum of prime numbers between 80 and 100.

7. Solve for p: $\frac{2}{3}p + 5 = 1 + p$

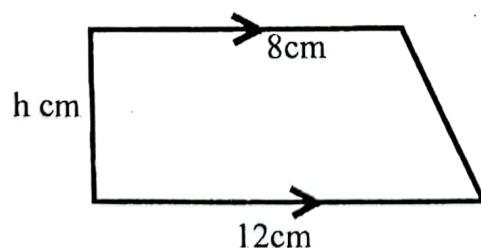8. Work out: $^-3 \times {}^-2$ on a number line.

9. The price of a radio was increased by 25%. If its new price is sh. 50,000. Find the old price.

10. A guava tree is the 25ᵗʰ from either side of the line of fruit trees planted along Ntinda-Kiwatule Road by K.C.C.A. How many trees are in that line?

11. Using a ruler, a pencil and a pair of compasses only construct a line through a point **M.** parallel to line **CD.**

M .

D

C

12. The figure below has an area of $100cm^2$. Find the value of h.

8cm

h cm

12cm

13. 10 shorts take 10 minutes to dry in the hot sun. How long will 20 shorts take if they are exposed to sunshine at the same time?

14. A driver covers a distance of 360km at a speed of 60km/hr. How many hours less will he use if he drives at 90km/hr. to cover the same distance.

15. Solve for q: $6^{2q+1} \div 36 = 1$

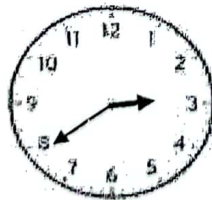16. Through what angle does a minute hand of a clock move in 40 minutes.

17. Use distributive property to work out: $(2.4 \times 6) + (2.4 \times 4)$

18. Work out:

Kg	g
9	250
− 3	710
_____	_____
_____	_____

19. Express 449 in roman numerals.

20. Tell the afternoon time shown on the clock face.

6

SECTION B: 60 MARKS
Answer all questions in this section
Marks for each question are indicated in the brackets

21. a) At a graduation party, children were served with 3 meat pies each, adults were served with 4 pieces of chicken each and each member who attended was served with a bottle of soda. If 72 meat pies and 192 chicken pieces were served, how many people attended the party.

(3 marks)

b) If a crate of soda contains 24 bottles and costs sh. 20,000. How much was spent on soda? (2 marks)

22. Two bells are rung at intervals of 40 minutes and 50 minutes for lower and upper primary classes respectively.
a) After how many minutes will the two bells be sounded together?
(3 marks)

b) If they are sounded together for the first time at 7:00 a.m. At what time will the two bells sound together for the second time? **(2 marks)**
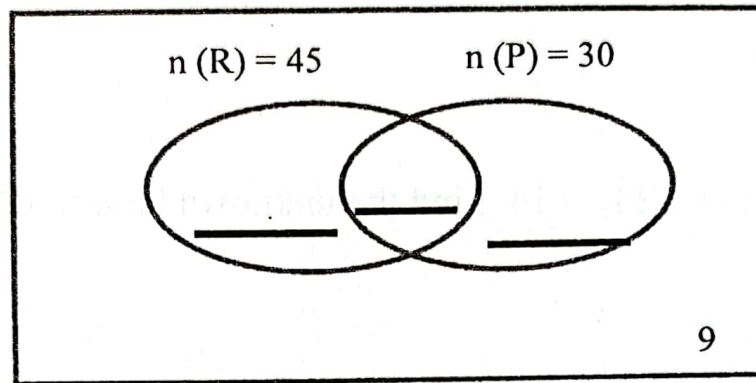
23.   a) Solve and write the solution set for: $3 - 2m < 15$. **(3 marks)**

b) Tinah is four years younger than Trisha. Teddy is two years younger than Tinah. If the age of Tinah and Teddy is 32, how old is Teddy?

(3 marks)

24. In a hotel, all the 60 customers ordered for cassava (C), 30 customers ordered for posho (P) and cassava, 45 customers ordered for rice (R) and cassava, 9 customers ordered for only cassava while h customers ordered for all the three kinds of food.

a) Use the above information to complete the Venn diagram below.

n (R) = 45   n (P) = 30
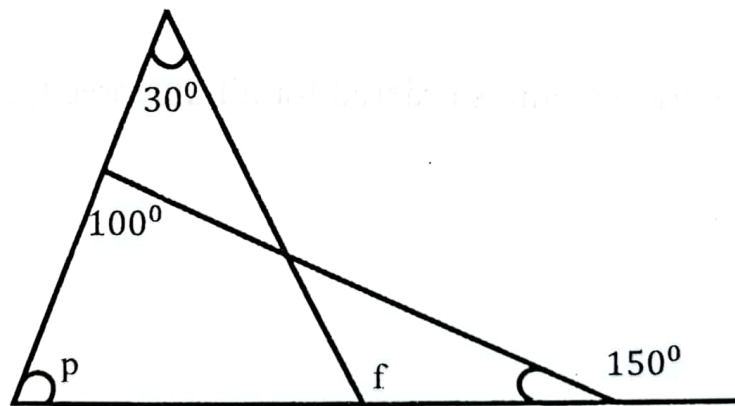
_____   _____

9

(3 marks)

b) How many customers ordered for all the three types of food?

(2 marks)

25.   a) Find the difference of the place value of 4 and 6 in the number
      43,267.   (2 marks)

b) Given that $24_r = 14$. Find the unknown base r. (2 marks)

26.   a) Study the diagram below and answer the questions that follow.

   i)   Find angle f.   (2 marks)

ii)   Find angle p.   (2 marks)

b) The exterior angle of a regular pentagon is $5n + 12^0$. Find the value of n.   (2 marks)

27.   In a P.7 class, $\frac{1}{3}$ of the pupils ate sweet potatoes, $\frac{1}{2}$ ate pumpkins, $\frac{1}{2}$ of the remainder ate cassava and the remaining 6 pupils ate rice. Find the number of pupils in the class.   (5 marks)

28. Marvin drove a car from town **E** to town **F** at a speed of 90km/hr. in 3 hours. He rested at town **F** for an hour and drove back at an average speed of 54km/hr. Calculate Marvin's average speed for the whole journey. **(5 marks)**

29. The table below shows the denominations, number of notes and amount. Use it to complete the blank spaces correctly with correct working.

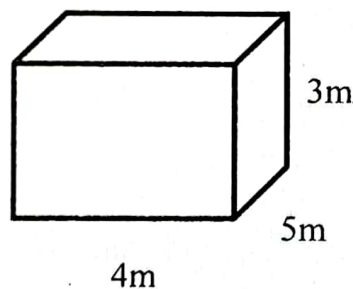| Denomination	Number of notes	Amount
Sh. 1,000	20	Sh. 20,000
Sh. 2,000	15	Sh. ....
Sh. 5,000	....	Sh. 75,000
Sh.	5	Sh. 50,000
Sh......................	4	Sh. ....
Total		Sh. 375,000

(5 marks)

30. Using a pair of compasses, ruler and a very sharp pencil only, construct a triangle JKL where line JK = 5cm, angle JKL = 105°and line KL=3.5cm.
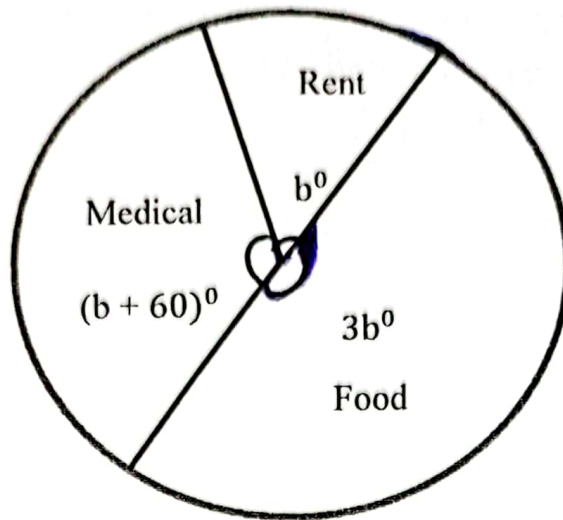
(4 marks)

b) Measure angle KJL ———————————————— **(1 mark)**

31. How many 250 litre jerrycans of milk can be obtained from a rectangular tank of 4m by 5m by 3m? **(4 marks)**

3m

5m

4m

31. The pie chart below shows how Mr. Byamugisha spent his monthly salary. Study and use it to answer questions that follow.

a) Find the value of b in degrees. (2 marks)

b) If he spends sh. 200,000 more on food than medical, find how much he spends on rent. (3 marks)

END