HORMISDALLEN SCHOOL - KYEBANDO
PRE-PLE SET 10 EXAMINATION, 2023
PRIMARY SEVEN MATH
Duration: 2 Hours 15 Minutes

NAME: _____ **STREAM:** _____

INDEX NO [ ][ ][ ][ ][ ][ ][ ][ ]   **EMIS NO.** [ ][ ][ ][ ][ ][ ]
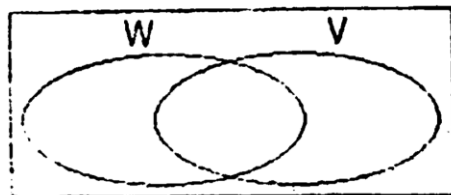
SECTION A (40 MARKS)

Questions 1 to 20 carry two marks each

1. Add : $364 + 123$

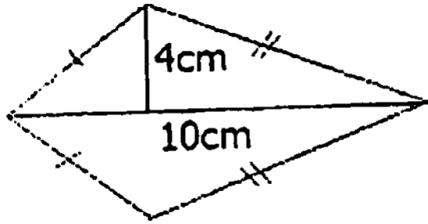2. Express 13_{ten} to binary base

3. Decrease 800 in the ratio of $4:5$

4. Describe the shaded part in the Venn diagram below.

5. Find the next number in the sequence below;
   5, 6, 9, 14, 21,_____   .

6. Find the area of the figure below
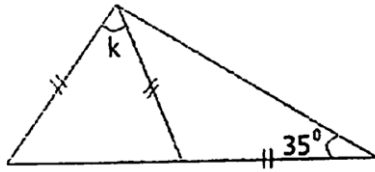
   4cm

   10cm

7. Express 11111 in words

8. Workout: ⁻4 - ⁻3

9. Subtract a + 2 from 3a − 4

10. Find the range of 4, ⁻9, 3, ⁻2, 0, 8, 1

11. Write 12:40 a.m. in 24hour clock system

12. Calculate the value of angle k.

13. Tom was born in 12BC. If he died in 35AD, how old was he?

14. In the space below, construct a *semi-circle* whose diameter is 6cm

15. Express $6\frac{2}{3}$ as a common fraction in its lowest form.

16. What is the 30th triangular number?

17. If $12\frac{1}{2}\%$ of a number *is* 25, find the number

18. Find the simple interest earned on sh. 800,000 at an interest rate of 20% per month for 3months

19. If a die is rolled once, what is the probability of getting a prime number on top?

20. Mary bought a ball for sh. 12,000 and later sold to David at sh. 8000. What was Mary's loss?
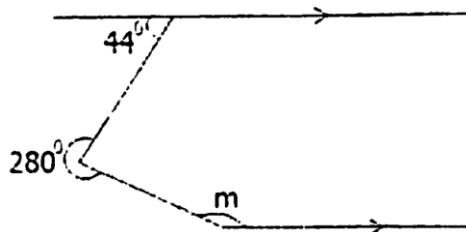
SECTION B (60 MARKS)

21. a) Solve for m: $\frac{1}{3}$ m – 4 : m – 4 = 1 : 5   (3 marks)

b) At Masaka market, a mango costs two fifths the cost of an orange. While a pawpaw costs sh. 500 less than the cost of the orange. If the total cost of the three fruits is sh. 1900, find the cost of the mango. (3marks)
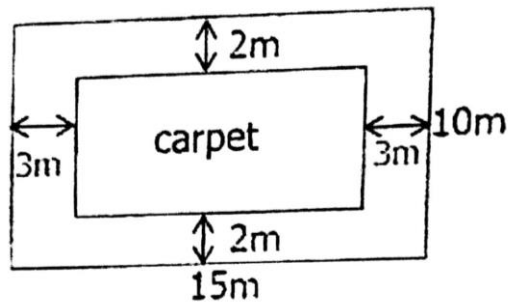
22. A school buys $\frac{4}{5}$ of the beans used at school from Tanny. If it buys of the remaining beans used from Mary and it produces 1500kg. What is the total number of kilograms of beans the school uses? (5 marks)

23. a) What angle is $\frac{1}{3}$ of its supplement? (2 marks)

b) Calculate the value of m. (3 marks)

24. The figure below shows a carpet placed on a floor. Use it to find the area of the floor not covered by the carpet. (5 marks)
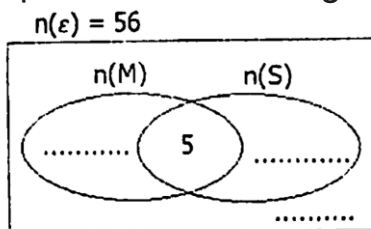

25. a) Solve for y: $12_y = 9_{\text{ten}}$ (3 marks)

  b) Subtract: $2\ 3\ 4_{\text{five}} - 1\ 2_{\text{five}}$ (2 marks)

26. a) It is now 12:25a.m. What time of the day will it be after 15 hours from now in 12 hour clock time? (3marks)

b) Find the least number of cakes in a packet such that when divided equally among 7 girls, 2 cakes remain, when divided among 4 girls, 3 cakes remain and when divided among 6 girls, 5 cakes remain. (3marks)

27. In a P.7 class of 56 pupils, 20 like science (S), p like maths (M) only which is also twice the number of pupils who like neither science nor maths.
    a) Complete the Venn diagram below   (3marks)

n(ε) = 56

n(M)   n(S)

.... (5) ....
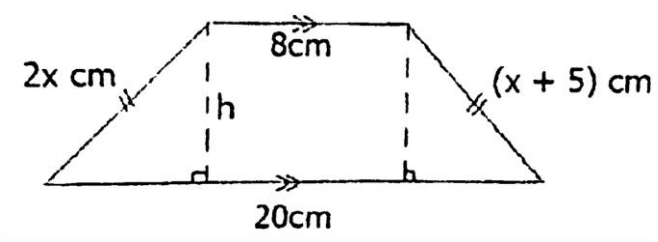
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    b) Calculate the value of p   (2marks)

28. a) Circle the number which is divisible by seven without dividing 1435, 2042 (2marks)

    b) Express the circled number above in Roman numerals   (2marks)

29. Use the figure below to answer questions a and b

8cm
2x cm
h
(x + 5) cm
20cm

a) Find the value of x   (2 marks)

b) Calculate the area of the shape of the above figure.   (3marks)

30. Complete the table below if y = x + 2. **(Show the working).** (4 marks)

X	0	1	2	⁻2	………	⁻4
Y	2	…….	4	………	⁻1	……..

30. Complete the shopping table below.   (5 marks)

Item	Quantity	Unit cost	Amount
Books	5	Sh. 2,000	Sh. …………
Pens		Sh. 700	Sh. 6,300
Pencils	Half dozen	Sh. 4,500 @ dozen	Sh. ………..
Reams	2	Sh. ……………	Sh. 50,000
Total expenditure			Sh. …………..

32. a) Using a pair of compasses, a ruler and a sharp pencil only, construct a rhombus KLMN where KM= 12cm and LN = 8cm. (4 marks)

b) Measure KL. …………………………..

END
GOOD LUCK