LWENGO DISTRICT ACADEMIC BOARD
PRIMARY LEAVING MOCK
EXAMINATION – 2023
MATHEMATICS

Time: 2hours 30 minutes

School: _____

EMIS No.					Personal No.			

Candidate's Name: _____

Candidate's Signature: _____

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. This paper has two sections A and B.
2. Section A, has 20 short questions (40 marks).
3. Section B has 12 questions (60 marks)
4. Answer all questions.
5. All answers to all questions must be written in the spaces provided.
6. All answers must be written using blue or black ball pen or ink. Diagrams should be drawn in pencil.
7. Unnecessary crossing of work will lead to loss of marks.
8. Any handwriting that cannot easily be read may lead to loss of marks.
9. Do not fill anything in the boxes indicated "FOR EXAMINER'S USE ONLY".

Turn over

1. Add: 364 + 123 (2mks)

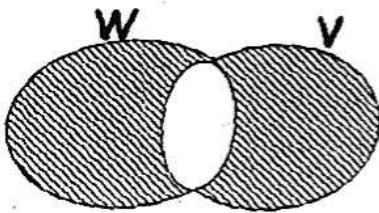2. Express 13_{ten} to binary base using diagrams. (2mks)
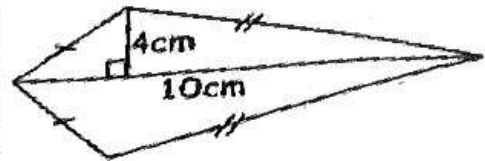
3. Decrease 800 in the ratio of 4:5. (2mks)

Describe the shaded part. (2mks)

5. Find the next two numbers in the sequence.

5, 6, 9, 15, 25, _____, _____ (2mks)

6. Find the area of figure below. (2mks)

4cm
10cm

7. Express 11111 in words. (2mks)

8. Work out. ⁻4 - ⁻3 (2mks)

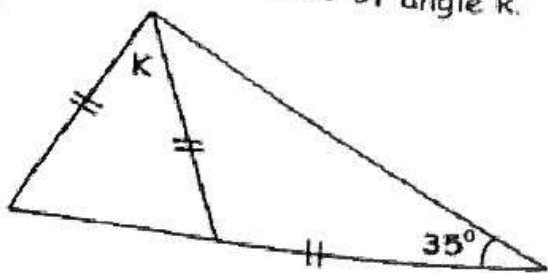**9.** Subtract: a + 2 from 3a - 4 (2mks)

10. Find the range of:

4, -9, 3, -2, 0, 8, 1 (2mks)

11. Calculate the value of angle k. (2mks)

12. Tom was born in 12BC. If he died in 35AD, how old was he? (2mks)

13. In the space below, draw a concave quadrilateral. (2mks)

14. Express $6\frac{2}{3}$ % as a common fraction in its lowest form. (2mks)

15.	What is the 30th triangular number? (2mks)

15. What is the 30th triangular number? (2mks)

16. Write 12:40am in 24 hour time. (2mks)

17. If $12\frac{1}{2}$ % of a number is 25, what is the number? (2mks)

18. Find the simple interest on sh. 800,000 at an interest rate of 20% per month for 3 months. (2mks)

19. If a die is rolled once, what is the probability of getting a prime number on top?
                              (2mks)

20. Mary bought a ball of sh. 12000 and later sold it to David at sh. 8000. What was Mary's loss?   **(2mks)**

SECTION: B

(3mks)

21. (a) Solve for m.

$$\frac{1}{3}m - 4 : m - 4 = 1:5$$

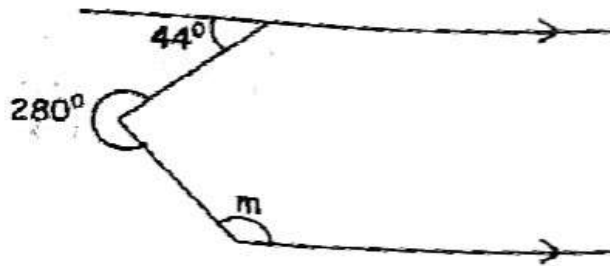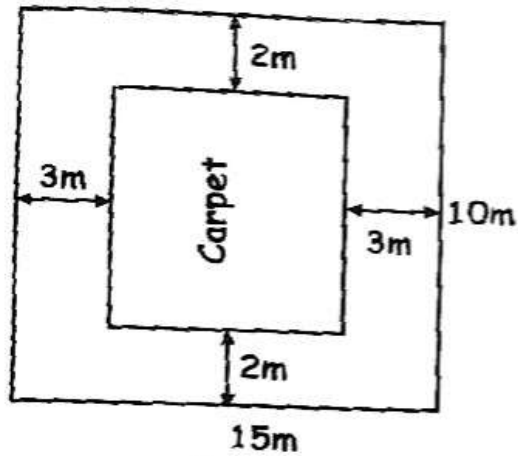|	
	(b) At Masaka market, a mango costs two fifths the cost of an orange. While a pawpaw costs sh. 500 less than the cost of the orange. If the total cost of the three fruits is sh. 1900. Find the cost of the mango. **(3mks)**
22.	A school buys $\frac{4}{5}$ of the beans used at school from Tonny. If it buys a $\frac{1}{4}$ of the remaining beans used from Mary and it produces 1500kg. What is the total kg of beans the school uses? **(5mks)**
23.	(a) What angle is $\frac{1}{4}$ its supplement? **(2mks)**

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Destiny is not a matter of chance but choice

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(b) Calculate the value of m. (2mks)

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

25. (a) Solve for y. $y^2 = 71_{nine}$ (3mks)

(b) Subtract: $231_{five} + 44_{five}$ (2mks)

26. (a) It is now 12:25am. What time of the day will it be after 15 hours from now in 12 hour time? (3mks)
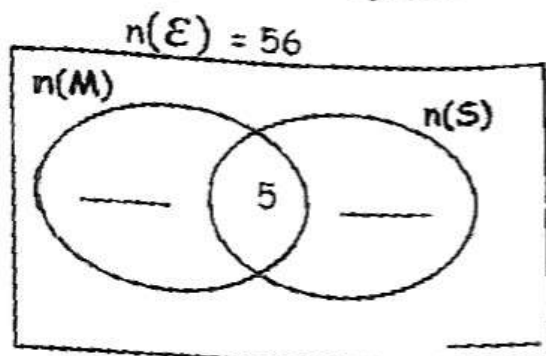
(b) Find the least number of cakes in a packet such that when divided equally among 7 girls 2 cakes remains, when divided among 4 girls 3 cakes remains and when divided among 6 girls 5 cakes remain. (3mks)

27. In a P.7 class of 56 pupils, 20 like Science (S), P like Maths (M) only which is also twice the number pupils who like neither Science nor Maths.

(a) Complete the Venn diagram. **(3mks)**

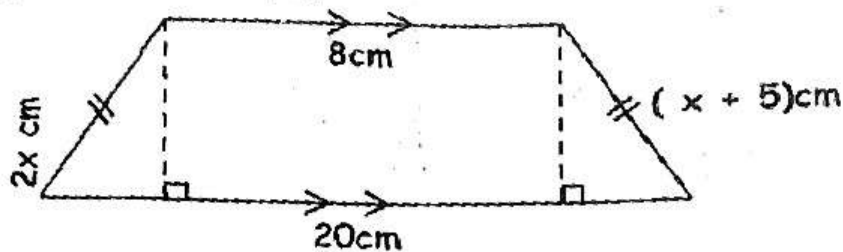n(ε) = 56

(b) What is the value of P? **(2mks)**

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

(b) Express the circled number above in Roman numerals. **(2mks**

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

(a) Find the value of x. (2mks)

(b) Work out for the area of the above figure. (4mks)

0. Complete the table below given. Y = x + 2

x	0	1	2	-2	___	-4
y	2	___	4	___	-1	___

"Show the working." (4mks)

31. Complete the shopping table below. (5mks)

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

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

(b) Measure KL. _____ (1mk)