

# KAMWENGE DISTRICT ACADEMIC BOARD

## P.6 PROMOTION EXAMINATION, 2023

### MATHEMATICS

Time Allowed: 2 hours 30 minutes

Pupil's Name: ..... 

Pupil's Signature: .....

School Emis No: .....

Sub-County: .....

**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-answer questions (40 marks) and Section B has 12 questions (60 marks)
3. All the working for both sections A and B must be shown in the spaces provided.
4. All working must be done using a blue or black ball-point pen or fountain pen. Diagrams should be drawn in pencil.
5. No calculators are allowed in the examination room.
6. Unnecessary changes of work may lead to loss of marks.
7. Any handwriting that cannot easily be read may lead to loss of marks.
8. Do not fill anything in the boxes indicated: "For Examiners' Use Only" and those inside the question paper.

FOR EXAMINERS' USE ONLY		
Qn. No.	Marks	Exam. No.
1 - 7		
8 - 14		
15 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
<b>TOTAL</b>		

Turn Over

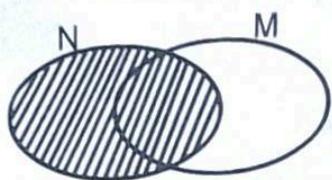


### SECTION A: (40 Marks)

1. Workout:  $9 \times 1$ .

7. Add:  $0.24 + 0.081$ .

2. Describe the unshaded region in the diagram below.

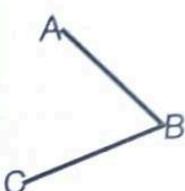


3. Write XLIII in Hindu-Arabic numerals.

4. Find the sum of the next two card numbers in the sequence.

[20], [18], [16], [14], [ ] , [ ]

8. Using a ruler and a pair of compasses only, bisect angle ABC below.



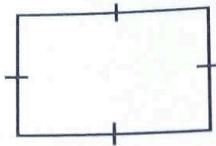
9. There are 25 apples in a basket. 12 of them are green and the rest are purple. If an apple is picked at random. What is the probability that the apple picked is purple?

5. Simplify:  $3x - 2y - 2x - y$ .

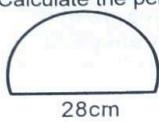
10. Moses sold a radio at sh. 36000 making a profit of sh. 4000. How much had he bought it?

6. Workout:  $-3 + -4$ .

11. How many lines of folding symmetry has the figure below. (show them).



12. Calculate the perimeter of the figure below.



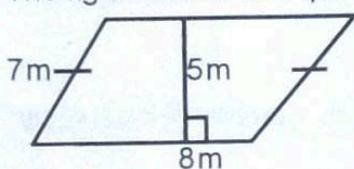
13. Given that set A = { all square numbers less than 10},  
Use  $2^n$  to find the number of subsets in set A.

14. Express  $231_{\text{five}}$  to base ten.

15. Mutabazi had 67983 trees on his land, If he sold 2998 trees.  
How many trees did he remain with?



16. The figure below is a quadrilateral. Find its area.



17. A trader packs bottles of 200ml, if he has 6Litres of honey, how many bottles can he pack?

18. Kenneth travelled for 40 minutes by taxi and 50 minutes by motorcycle.  
What total time did he spend travelling in hours?

19. Round off 2763 to the nearest hundreds.

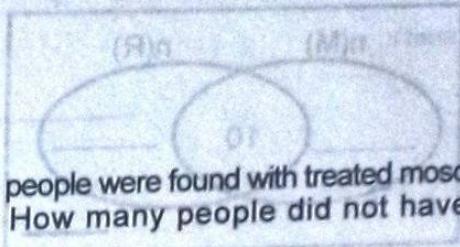
(R) 2700 (M) 2800

world map may not reflect actual boundaries or names.

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20. In a certain village  $\frac{3}{5}$  of the people were found with treated mosquito nets.

If there are 2500 people. How many people did not have treated mosquito nets?



### SECTION B: (60 Marks)

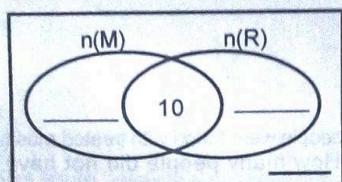
21. Given the number in words "Three thousand forty nine".  
Write the number in figures. (2marks)

(b) Find the value of 4 in the number. (2marks)

(c) Expand the number using place values. (1mark)



22. During the National Teachers' day celebration, 40 teachers ate Meat (M) only, 55 teachers ate Rice(R) only while 5 teachers ate neither of the two food stuffs.
- (a) Complete the venn diagram below. (3marks)



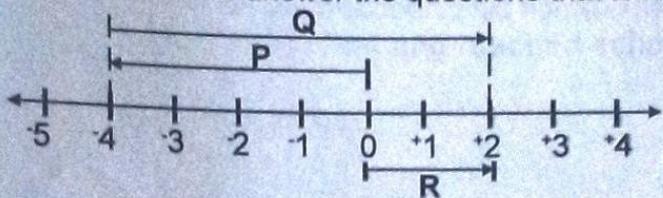
- (b) How many teachers attended the celebrations day altogether? (2marks)

23. The sum of 3 consecutive even numbers is 36.  
(a) Find each number. (3marks)

(2marks)

- (b) What is the product of the first and the third numbers you have obtained above?

24. Study the number line and answer the questions that follow.



(b) Name the arrows.

(1mark each)

(i)  $P =$  \_\_\_\_\_

(ii)  $Q =$  \_\_\_\_\_

(iii)  $R =$  \_\_\_\_\_

(b) Find the multiplicative inverse of +8.

(2marks)

25. A pupil read 20% of a book on Monday, 40% on Tuesday and  $2y$  on Wednesday. If the book had 35 pages altogether.

(a) Find the value of  $y$ .

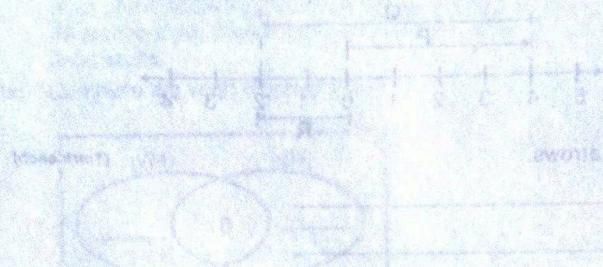
(3marks)

(b) How many pages were read on Monday?

(2marks)



26.(a) Using a pair of compasses and a ruler, construct a rectangle KLMN where  $KL = 6\text{cm}$  and  $LM = 4\text{cm}$ . (4marks)



(b) Measure the diagonal LN. (1mark)

27. The table below shows the rate at which different currencies are exchanged.

Currency	Rate in Ugsh.
1 US dollar	3700
1Ksh	28
1Pound sterling	4650

(a) How much money in Uganda shillings can one get with;

- (i) 50 US dollars (2marks) (ii) 500 Kenya shillings? (2marks)

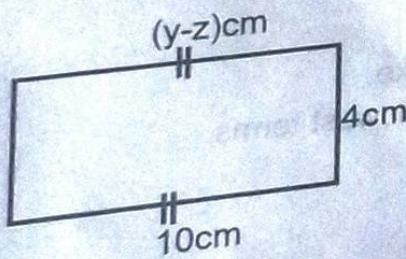
(b) How many pounds can one get from Ugsh. 46,500? (2marks)

28. The Headteacher drove from school to his home. The Headteacher started his journey at 8:00am and reached school at 8:30am a distance of 18km. (2marks)

(a) Find the time he took travelling.

(b) Find his speed in metres per second. (3marks)

29. Study the figure below and answer the questions that follow.



(2marks)

(a) Find the value of  $y$ .

(2marks)

(b) Work out its area.

30.(a) Solve:  $3p + 2 = 4$ . (2marks)

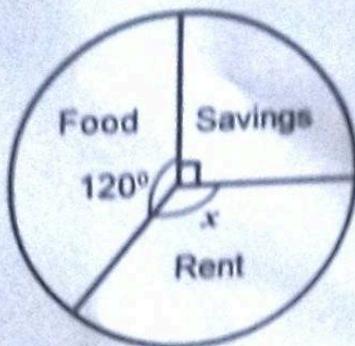
(b) A man is 7 years older than his wife. If their total age is 65 years, how old is the wife? (2marks)

31.(a) Nasasira served  $\frac{3}{15}$  of his birthday cake.  
Express this fraction as a ratio in the lowest terms. (2marks)

(b) Work out:  $\frac{0.02 \times 0.24}{0.06}$  (3marks)



32. Study the pie-chart below, it shows how a teacher spends her monthly salary of shs. 720,000



(2marks)

- (a) Find the value of  $x$ .

- (b) How much does the teacher save?

(2marks)

- (c) Express the sector degrees for food as a percentage.

(3marks)

\*\*\*END\*\*\*



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