

MBALE DISTRICT EXAMINATIONS BOARD
PRIMARY LEAVING MOCK
2023
MATHEMATICS

Time Allowed: 2 hours 15 minutes

Random Number							PERSONAL NUMBER		

Candidate's Name:

Candidate's Signature:.....

School:

**READ THE FOLLOWING INSTRUCTIONS
CAREFULLY.**

1. This 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 answers **must** be written using a **blue** or **black** ball point pen or ink. Any work written in pencil will **not** be marked.
4. Unnecessary changes in your work and handwriting that cannot be read easily may lead to loss of marks.
5. Do not fill anything in the table indicated **FOR EXAMINERS' USE ONLY**

FOR EXAMINERS' USE ONLY		
Question No.	Marks	Examiner's Initials
1-10		
11-20		
21-22		
23-24		
25-26		
27-28		
29-30		
31-32		
TOTAL		

SECTION A (40 Marks)

1. **Workout:** $48 \div 4$

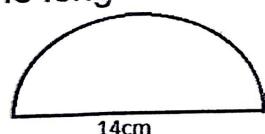
2. Express XLIV in Hindu – Arabic numbers

3. Simplify: $5p - (-3 + p)$

4. Round off "Four thousand forty" to the nearest hundreds.

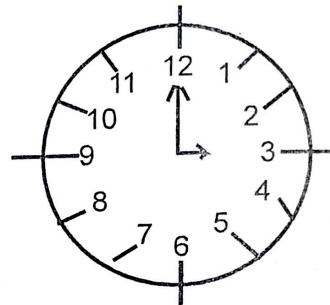
5. The mean of $n + 4$, 17 and 3 is 8. Find the value of n .

6. A Primary three child curved a wire into the shape shown below. Find the length of the wire.



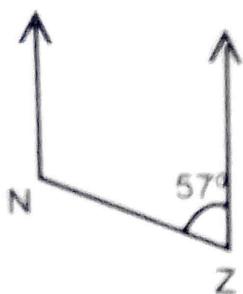
7. The complement of $2r - 20^\circ$ is 40° . Find the size of the larger angle.

8. Amos went to sleep in the afternoon at the time shown on the clock-face and slept for $3\frac{1}{4}$ hours. At what time did he wake up?



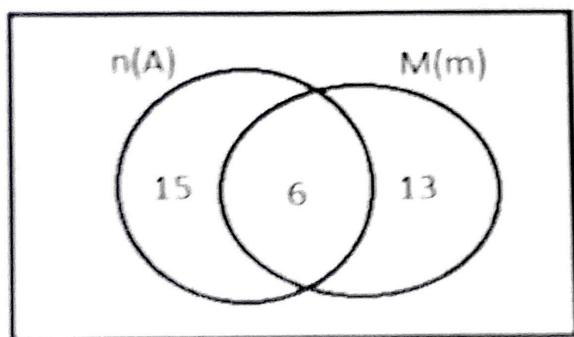
9. How many cylindrical tins of diameter 7cm and height 10cm can be packed into the big box measuring 63cm long, 42cm wide and 70cm high?

10. Find the bearing of N from Z in the diagram below.



11. The venn diagram below shows pupils who like Music and athletics

1A). Study it carefully and answer the question that follows - $N(\Sigma)$

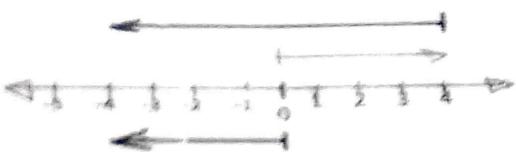


How many pupils participated in the two events

12. Workout:

$$\begin{array}{r} 4 & 3 \\ + 3 & \hline 6 \end{array}$$

13. Write the mathematical statement shown on the numberline.

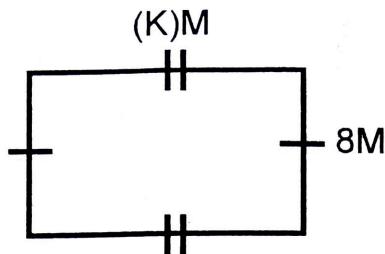


$$14. \text{ Workout: } 2 \frac{1}{4} - \frac{2}{3}$$

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15. Given that set $R = \{b, c, d, e, f\}$, Find number of subsets in set R.

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16. A trader withdrew a bundle of sh 5 000 notes from a bank numbered consecutively from BT8182010 to BT8182199. How much money did the trader withdraw.

17. The perimeter of the figure below is 42m. Workout the value of K.



18. Find the next number in the sequence: 36, 34, 31, 26, 19, _____

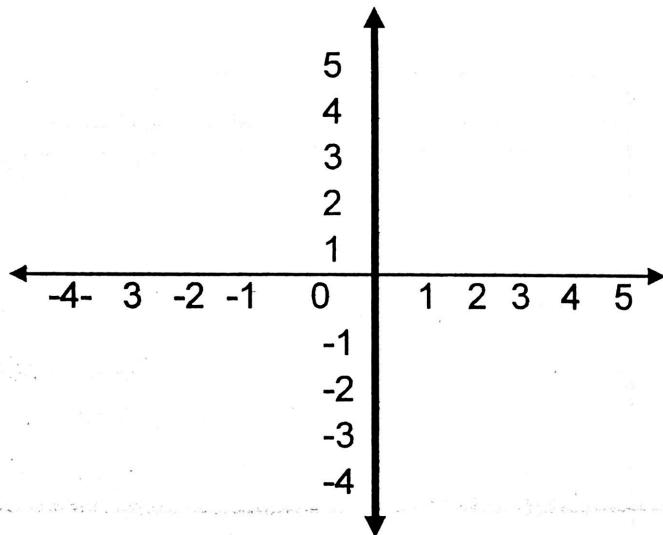
19. Using a ruler, pencil and a pair of compasses only construct an angle of 30°

20. Simplify; $-3 - - 8$

Section B (60 Marks)

21. Plot the following points on the grid below: A (-1, 4), B(+5, +4), C(+5, +1).

(4marks)



(1 Mark)

- b) Join the points A to B, B to C and C to D. Name the figure formed. (1 mark)

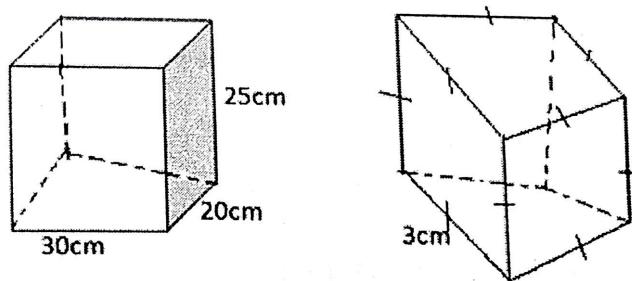
22. a). Find the value of P in; $2p \div 8 = \frac{1}{128}$

(3 marks)

b). Solve for m in, $\sqrt{m+7} = 4$ (2 marks)

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23. Raymond sold a shirt to Kakooza making a loss of 10%. Kakooza later sold it to Arthur making a loss of 20%. If Arthur paid sh. 21,600 for the shirt, how much did Raymond buy the shirt? (5 marks)

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24. Small cubes of 3cm by 3cm are to be packed into a box measuring 30cm by 20cm by 25cm (see the diagram below).



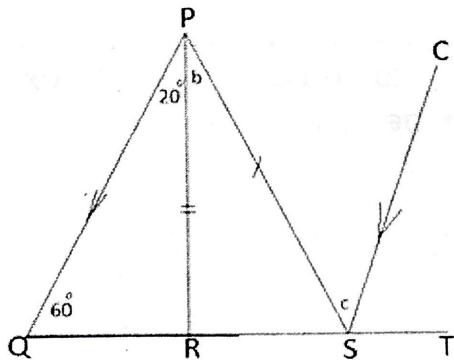
- a). How many cubes can be packed into the big box?

(2marks)

- b). Calculate the space left empty after the cubes have been packed into the box . (3 marks)

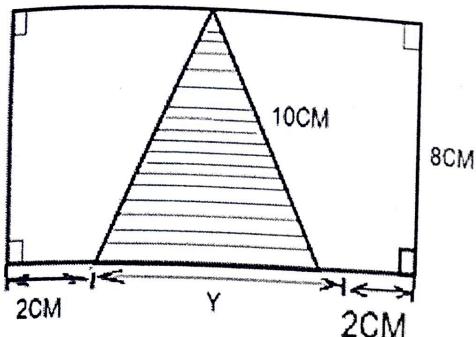
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25. In a market, the cost of a pawpaw is sh.800 more than the cost of a mango. A mango costs two thirds of a pineapple. The total cost of the three fruits is sh.4,300. Calculate the cost of a pineapple (4Marks)

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26. In the figure below PQ and SU are parallel lines. Angle PQR = 60° and angle SPQ = 60° and angle RPQ= 20° . Use it to answer the questions below;



Find the size of angle b and C in degrees (4 marks)

27. The figure below is a triangular garden inside a rectangular fence having width of 10m. Study the figure and use it to answer questions that follow



- a) Find the base of the garden.
(2 Marks)

- b). Work out the area of the fence left unoccupied by the garden. (3 marks)

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28. The length of a road leading to Karola Junior School is 1.8KM.

Poles are fixed in straight lines on both sides of the road at intervals of 20 metres.

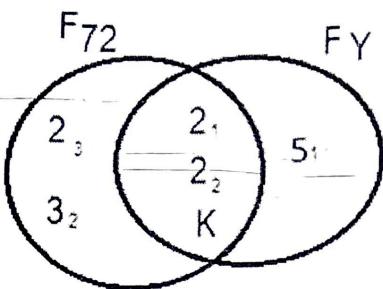
- a). How many poles were used altogether? (2marks)

- b). If each pole costs sh. 3,000, how much did the school spend in buying the poles? (3 marks)

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29. a) In an hour, a watch loses 5 seconds. In how many hours will it lose 2 minutes? (2marks)

- b). Express 20mls into Km/hr. (3 marks)

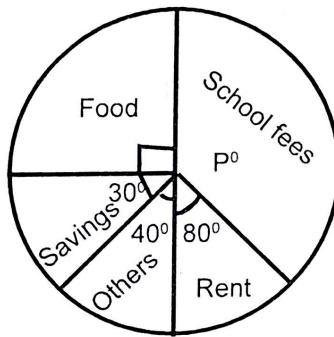
30. Study the venn diagram below and use it to answer the questions that follow.



a). Find the value of K (2Marks)

b) Calculate the LCM of 72 and K (3marks)

31. The pie chart below Shows how Adong spends her salary. Use it to answer the questions that follow



a). If she spends sh. 240, 000 on school fees, what is her salary? (4marks)

b) What percentage of her salary does she save? (2 Marks)

32. a). Workout; (2 marks)

a) 1101_{two} + 110_{two}

b). If $103x = 28_{\text{ten}}$, Find the value of X. (3 marks)