



RAPHA EXAMINATIONS BOARD

P.7 EXAMINATIONS 2024

REAL MOCK SET 1 MATHEMATICS

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Time allowed: 2 hours 30 minutes



Random No.						Personal No.		

Candidate's Name:

Candidate's Signature :

District Name:

Read the following instructions carefully:

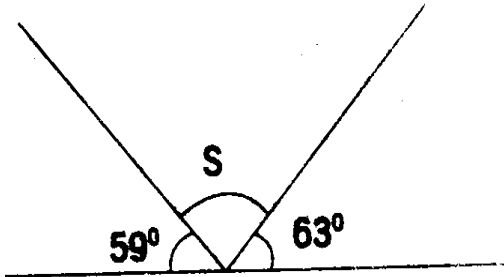
1. The paper has two sections: A and B.
2. Section A has 40 questions (40 marks)
3. Section B has 12 questions (60 marks)
4. Answer all questions. All answers to both Sections A and B must be written in the spaces provided.
5. All answers must be written using a blue or black ball point pen or ink. Diagrams should be drawn in pencil.
6. Unnecessary changes in your work may lead to loss of marks
7. Any handwriting that cannot be easily read may lead to loss of marks.
8. Do not fill anything in the table indicated:
"FOR EXAMINERS' USE ONLY" and boxes inside the question paper.

FOR EXAMINERS' USE ONLY		
Qn. No	MARKS	EXR'S No.
1 – 5		
6 – 11		
12 – 16		
17 – 21		
22-27		
28-32		
TOTAL		

SECTION A (40 MARKS)

1. Add: $424 + 46$

2. Find the size of angle marked S in the figure below.



3. Opendi walked 2.3km from his home to his daughter's house. Express this distance in metres.

4. Simplify: $5m - (2+m)$

5. Multiply: 106×4

6. Solve: $4p - 8 = 16$

7. Multiply: $\frac{1}{2} \times \frac{1}{4}$

8. Change 5 base ten to binary.

9. What is the complementary angle of 78° ?

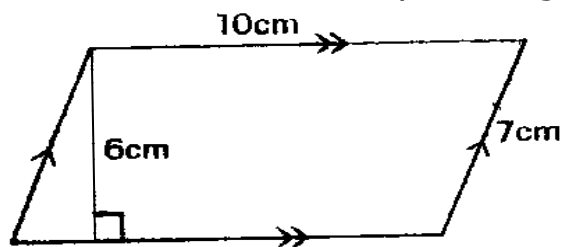
10. In a class of 60 pupils, 12 are boys. Express the number of boys as a percentage number of the whole class.

11. If set $P = \{1, 2, 3, 4, 5\}$ and $P \cup Q = \{1, 2, 3, 4, 5, 6, 7, 8\}$ Find the number of elements in set Q only.

12. If: $\frac{6 \times 1}{6} x = 5$ find the value of x

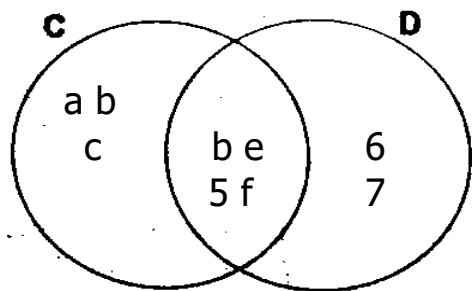
13. Find the Lowest Common Multiple of 8 and 20.

14. Find the area of the parallelogram drawn below.



15. Rapha bought 4 exercise books at Shs8000. How much would he pay for 8 similar exercise books?

16. Use the Venn diagram below to find $n(C \cap D)$



17. Express $\frac{3}{5}$ in percentage.

18. Write 444,350 in words.

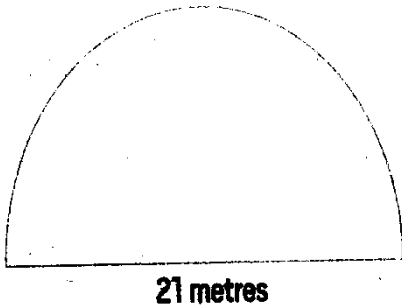
19. Mawa bought a cow at shs600,000 then sold it at Shs1,000,000. What is his profit?

20. The average age of 4 boys is 12 years. If one of them is 10 years old. What is the average of the other three boys?

SECTION B (60 Mks)

21. Iganga town's population has been declining slowly by slowly. In 2023 there were 500,000 residents, and there were only 467,000 residents in 2024. Work out the percentage decline of the population. (4mks)

22. Jessy designed his flower garden in the form of a semi- circle below. Its diameter is 21 metres. How many trees can be planted round the garden at an interval of 180cm? (4mks)



23.a)The sum of two numbers is 10. Their difference is 4. Find the two numbers. (3mks)

b) . Workout the lowest common Multiple of the two numbers. (2mks)

24. In Sankara Junior school, there were 900 learners in year one, 520 learners in year 2 and 380 learners in year 3. Draw a circle graph to represent the number of learners in these groups. (5mks)

25. Study the extract of Irene's Bank Deposit slip below. Complete the table.

Denomination	Number of notes or coins	Amount
Ug sh. 50,000	4 notes	_____
Ug sh. 20,000	_____	Ug sh. 300,000
_____	3 notes	Ug. Sh. 15,000
Ug. Sh. 500	20 coins	_____

(4mks)

b) If Irene's account had Ug.Sh.103, 900 before deposit . Find the new amount on her bank account. (2mks)

26a) Which base five numerals is represented by 2 groups of five- five, 4 ones?
(1mk)

b) Find the value of 4 in the number 47.777 (1mk)

c) How many pens are in 12.5 dozens ? (2mks)

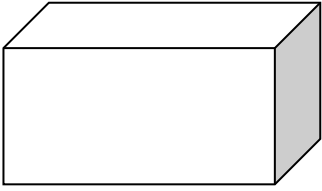
27a) The workers at Tubone Maize Millers Ltd have 3 sacks of maize flour weighing 90kg, 120kg and 150kg respectively. What is the mass of the biggest pack that can be used so that no flour remains in any of the sacks? (3mks)

b) The L.C.M of two numbers is 72. Find the second number if one of the number is 8 and GCF is 12. (2mks)

28a) Using a pair of compasses and a ruler, construct a square PQRS with diagonal PR = 8cm. (5mks)

b) Measure the length of PQ in centimetres. (1mk)

29. The surface area of the figure below is 460cm^2 . Its width and height are 10cm and 5cm respectively. Find the length of the prism. (5mks)



30.a) The interior angle sum of a regular polygon is 1260° . How many triangles can be formed from the polygon? (2mks)

b) Calculate the size of each exterior angle. (3mks)

31.a) Nahiyah's is 20 year older than his son. In 10 years. Her father will be twice as old as the son. How old is the son? (3mks)

b) Find the father's age in 10 years. (2mks)

32. Mwesigwa saved money in Finance Trust Bank. He was offered shs1,500 monthly as interest. If he deposited sh. 2,300,500. How much did he have on his account after 5 years? (5mks)

END