KAMPALA ACADEMIC EXAMINATIONS BOARD

PRIMARY SEVEN MOCK EXAMINATIONS 2024

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Admission No.						Personal No.		

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Candidate's Name: .....

Candidate's Signature :.....

School Name: .....

District Name: .....

INSTRUCTIONS

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO
Read the following instructions carefully

1. The paper has two Sections **A** and **B.**
2. All workings for both sections **A** and **B** must be shown in the spaces provided.
3. Section **A** has **20** short questions **(40 marks).**
4. Section **B** has **12** questions **(60 marks)**
5. All working must be done using a blue or ball point pen or ink.
6. Diagrams should be drawn in pencils.
7. **No calculators** are allowed in the examination room.
8. Unnecessary **alteration** of work may lead to loss of mark.
9. Any hand writing that cannot easily be read may lead to **loss of marks.**
10. Do not fill in the boxes indicated; **"FOR EXAMINER' USE ONLY"** and those inside the question paper.

FOR EXAMINERS USE ONLY

QN. NO.	MARKS SCORED	INITIAL
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
TOTAL		

Turn over

SECTION A (40 MARKS)

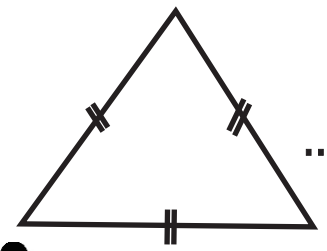
1. Work out: 33 x 3

2. Moses was born in 1962. Write this year in Roman numerals.

3. If P={a, r, t, s} and Q={m, a, t, h, s} Find n(PnQ)'

4. Evaluate: $\frac{1}{2} + \frac{3}{4} \div \frac{1}{3}$

5. Show the lines of folding symmetry on the shape.



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6. Calculate correctly.
(82 x 20) - (34 x 20)

7. The exterior angle of a regular polygon is 60^{o}. Name the polygon.

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8. Walid's salary at sh. 700,000 was increased by 20%. Find his new salary.

9. Round off 79.64 to the nearest whole number.

10. Use a pair of compasses and a ruler only to construct 150^{o}.

11. The area of a square room is $2\frac{7}{9}$ m^2.
Work out the measurement of its sides.

12. On the figure below, calculate the value of a and b.

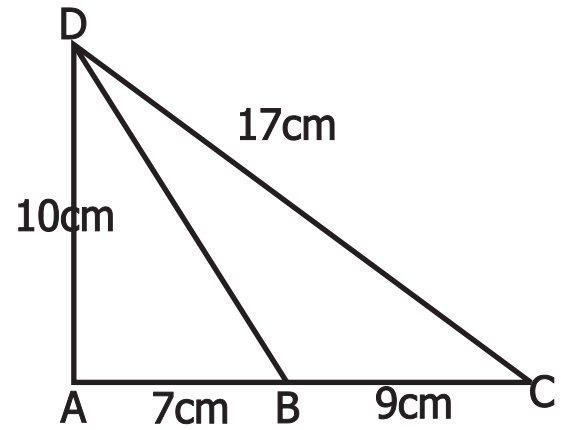
8	(a)	6
3	5	7
(b)	4	2

13. Given that m=$^{-}$3 and n =4, find the value of 2m + 2n.

14. A container has 12.7 litres of water.
If 5.12litres are added.
What is the new amount of water?

15. The radius of a bicycle wheel is 42cm.
What is the distance around the wheel?

16. In the figure below, find the area of DBC.

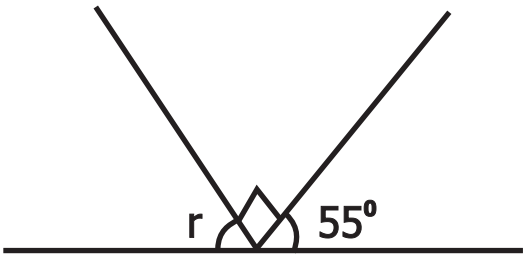


17. The median of 1 consecutive integer is $^{-}1$. Find the range of 7 integers.

18. Express 1011_{two} to base ten.

19. Find the least number that can be divide by either 9 or 12 such that the remainder is 4.

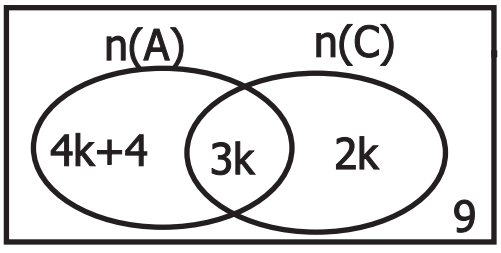
20. Calculate the value of angle r.



SECTION B **(60 marks)**

21. In a village of 47 farmers, some keep animals (A) , some grow crops (C) and some do neither of the activities.
Use the venn diagram to answer questions that follow.

$n(\varepsilon) = 47$

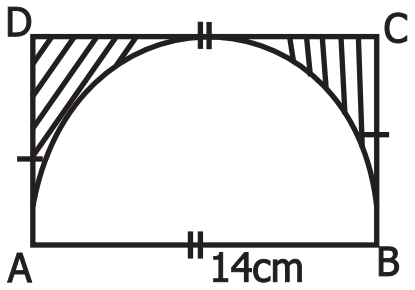


a) Find the value of k. *(3marks)*

b) How many farmers carry out only one kind of activity? *(2marks)*

22. A man is 4 times as old as his daughter. The difference between their age is 27 years. Find their total age. *(5marks)*

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



a) What is the length of BC? *(1mark)*

b) Calculate the area of the shaded part. *(3marks)*

c) Find the distance around the shaded part. *(2marks)*

24. a) Convert 0.1212 .....to a simple fraction. *(03marks)*

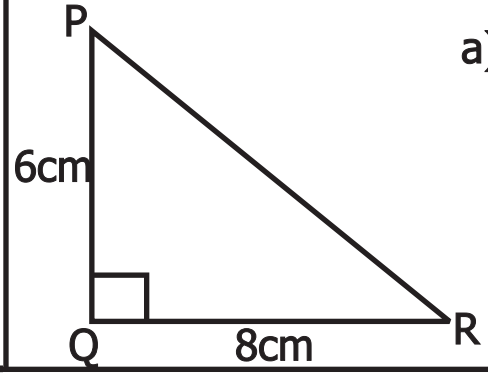
b) Factorize : $2y^2 - 4y$ completely. *(2marks)*

25. A trader left his home village at 8:30am and drove at a speed of 72km/hr for 2½hrs, to reach town. From town, he drove to his farm at Luzira in 1½hrs at a speed of 56km/hr.

a) At what time did he reach town? *(2marks)*

b) Calculate the average speed for the whole journey from his village to the farm. *(3marks)*

26. Below is a right angled triangle.



a) Find the length of PR. *(2marks)*

b) Calculate the area of PQR. *(2mrks)*

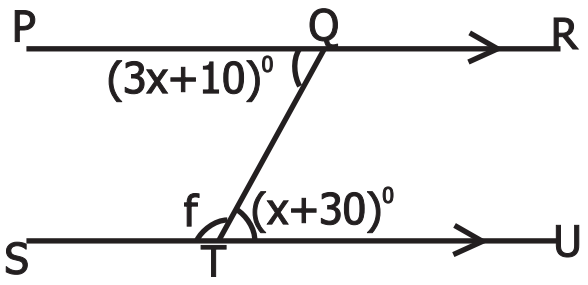
27. Given the numeral 456.9.

a) Find the place value of 9. *(1mark)*

b) Expand the numerals using powers. *(2marks)*

c) Find the sum of the value of 4 and the value of 9. *(2marks)*

28. In the figure below PR is parallel to SV. PQT= (3x+10) and QTU=(x+30°)



a) Find the value of x. *(03marks)*

b) Find angle f. *(2marks)*

29. Study the table below carefully.

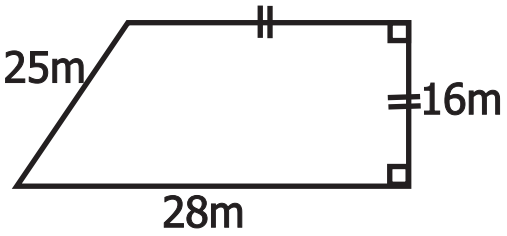
Marks	50	60	85	90
No. of pupils	2	4	2	1

a) Find their median mark. *(2marks)*

b) Calculate their mean mark *(3marks)*

30 The sum of 3 consecutive odd number is 21. Find their range. *(5marks)*

31 ABCD is a trapezoid shape of a hall.



Find the area of the hall. *(2marks)*

31 b) If a puppy went round the hall twice, what distance does it make? *(3marks)*

32. Using a pair of compasses, a sharp pencil and a ruler only, construct triangle NBS such that NBS $=45^0$, NB=5cm and SNB$=90^0$ *(4marks)*

b) Measure the length of NS.

END