THE DESTINY ACADEMIC RESEARCHERS CONSULTANCY - KAMPALA

NATIONAL PRIMARY LEAVING MOCK EXAMINATION - 2024

MATHEMATICS

Time allowed : 2 hours 30 minutes

Index No.	Random No.						Personal No.		

Candidate's name : ....

Candidate's signature : ....

School Random number : ....

District No. | | | | |

Read the following instructions carefully:

1. Do not write your **school** or **district name** anywhere on this paper.
2. This paper has two sections: **A** and **B**. Section **A** has **20** questions and section **B** has **12** questions. The paper has **15 printed papers** altogether.
3. Answer **all** questions. **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 ink. Any work done in pencil other than graphs and diagrams will **NOT** be marked.
5. **No calculators** are allowed in the examination room.
6. Unnecessary **changes** in your work and handwriting that cannot easily be read may lead to loss of marks.
7. Do not fill anything in the table indicated: **"For examiners' use only"** and the boxes inside the question paper.

FOR EXAMINER'S USE ONLY		
Qn. No.	MARKS	EXR'S NO.
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
TOTAL		

Turn over

Answer **all** in this section
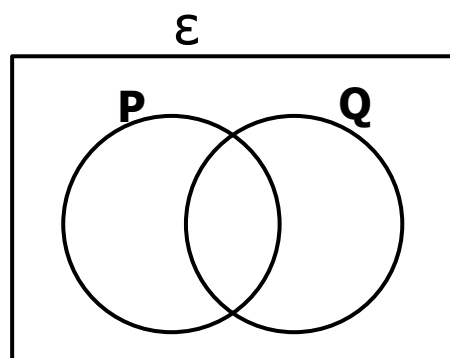Questions **1** to **20** carry **two** marks each.

1. Multiply: 23 × 2

2. Write 4044 in words

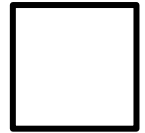   ....

    ....

3. Add: $(3 \times \frac{1}{8}) + (4 \times \frac{1}{8})$

4. In the Venn diagram below, shade the complement of set P-Q

5. Using a ruler, a sharp pencil, and a pair of compasses only, construct an angle of 45º

6. Work out the average of 3p, 8, 4p, 7, and 3p.

7. Poles are to be planted on a straight line at an interval of 5m apart for a distance of 3km. How many poles will be planted?
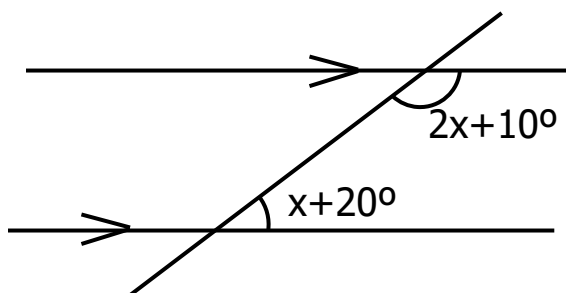
8. Convert 12:30 a.m. to a 24-hour clock system.

9. Subtract -5 from 2

10. A trader bought a goat at sh.145000. at what price should he sell it if he intends to make a profit of sh. 15000?
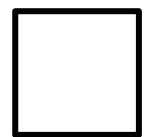
11. A cyclist traveling at a speed of 90km/h took 20 minutes to travel from **Town P** to **Town Q**. Find the distance between **P** and **Q**.
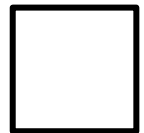
12. Find the value of x in the figure below.

13. Express 194 in Roman numerals.

14. Given that represents 100 trees. Draw pictures to represent 500 trees
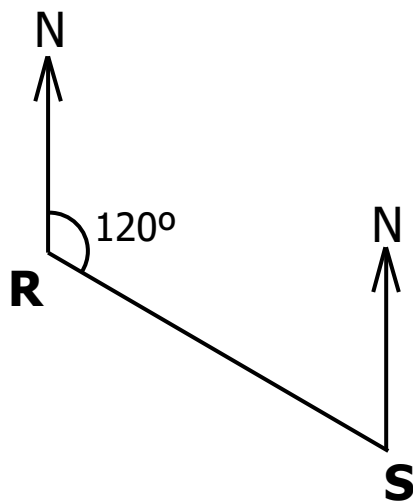
15. Solve for x; $2x - 3 \geq 7$

16. 8 men can take 4 days to dig a school garden. How many more days will 2 men digging at the same rate take to dig the same garden?
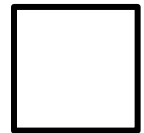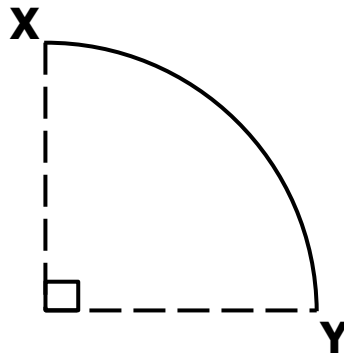
17. The LCM of two numbers is 72 and their GCF is 6. Find the second number if the first number is 18.

18. In the diagram below, find the direction of town R from S.

19. Add: $213_{four} + 21_{four}$

20. The length of the **arc XY** in the figure below is 33dm. Find its radius (Use π as $\frac{22}{7}$)

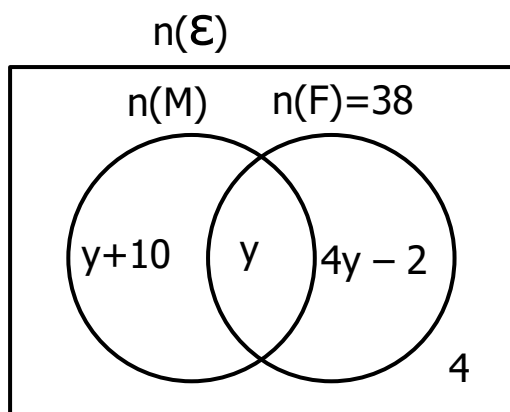$$\boxed{}$$

SECTION B : 60 MARKS

Answer **all** questions in this section
Marks for each question are indicated in brackets

21. The Venn diagram below shows the number of pupils who like Mathematics (M) and English(E) in a primary seven class. Study it carefully and answer the questions that follow.

(a) Find the value of y. *(02 marks)*

(b) How many pupils like only one subject? *(02 marks)*

22. John is 16 years older than Jane. In 10 years, John will be twice as old as Jane.

   (a) How old is John now? *(03 marks)*

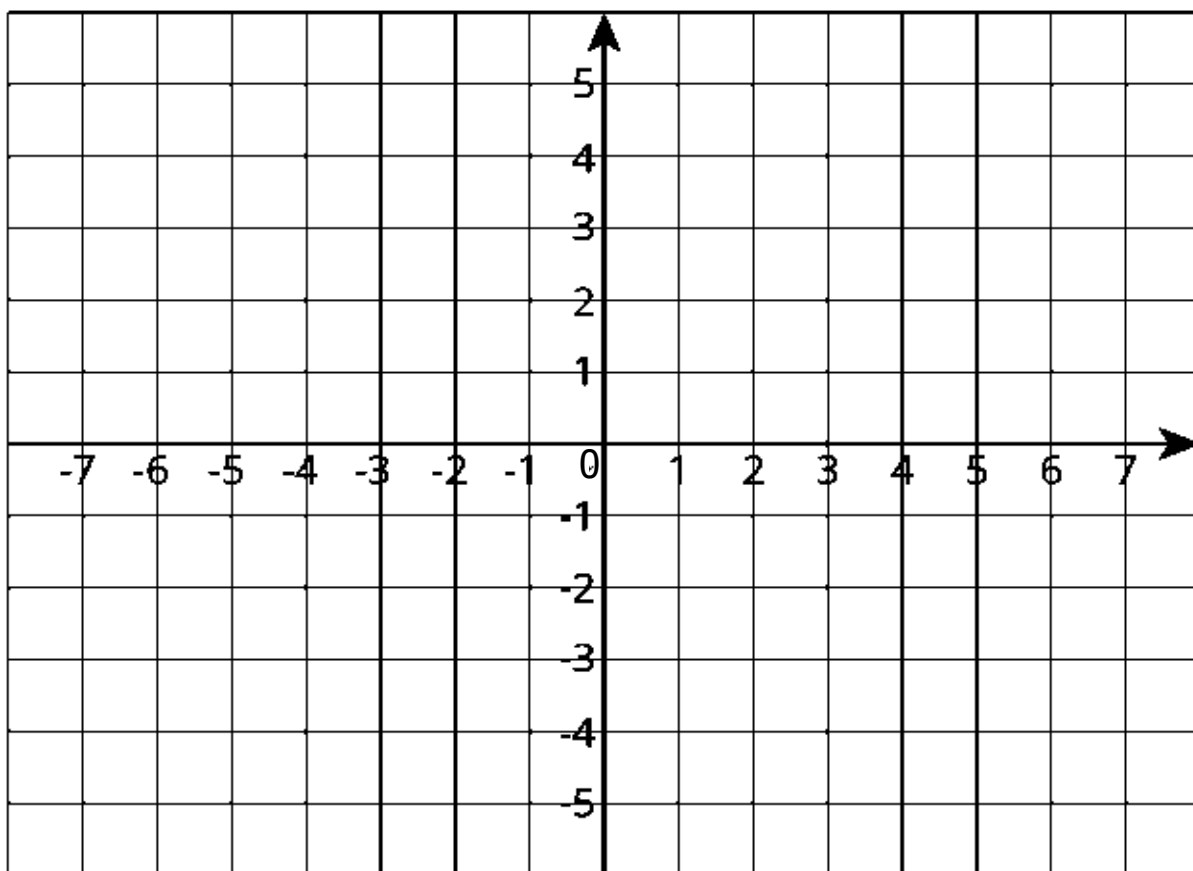   (b) Find their total age in ten years. *(03 marks)*

23. (a) Express $\dfrac{1}{6}$ as a decimal *(02 marks)*

   (b) Work out: $\dfrac{0.8 + 2.43}{3.23 - 1.33}$ *(03 marks)*

24. (a) On the grid below, plot the following coordinates.

A(-3,3), **B**(0,3), **C**(-3,-2) and **D**(4,-2)   *(04 marks)*

a. Join A to B, B to D, D to C, and C to A.   *(01 mark)*

b. Name the figure formed after joining.   *(01 mark)*

25. (a) Using a ruler, a sharp pencil and a pair of compasses only
         construct a rhombus PQRS where PQR = 120º and PQ=6cm.
                                                        (04 marks)

    (b) Measure the length of the diagonal PR.   *(01 mark)*

26. Below is exchange rate at a certain bank.
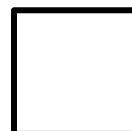
              1 US dollar = Ugsh 3600
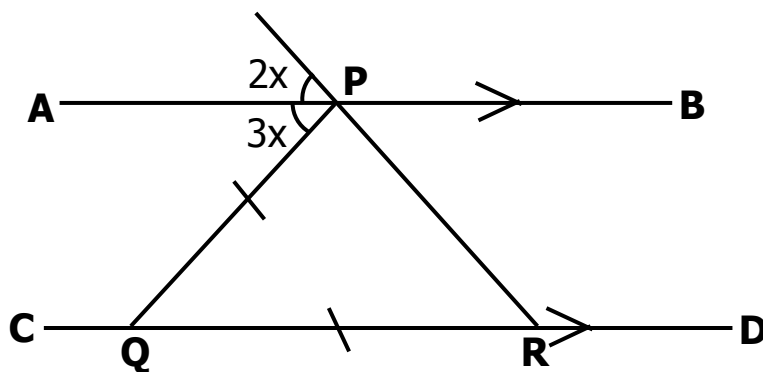   1 Kenya shilling = Ugsh 30
              1 British pound sterling = Ugsh 4700

    (a) Convert the Uganda shillings 1081000 to British pounds.
                                                        (02 marks)

(b) Joan bought a bicycle for 325 US dollars. Find the cost of the bicycle in Kenya shillings. *(03 marks)*

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27. In the figure below, line AB is parallel to line CD and PQR is an isosceles triangle. Study it carefully and answer the questions that follow

(a) Find the value of x *(02 marks)*
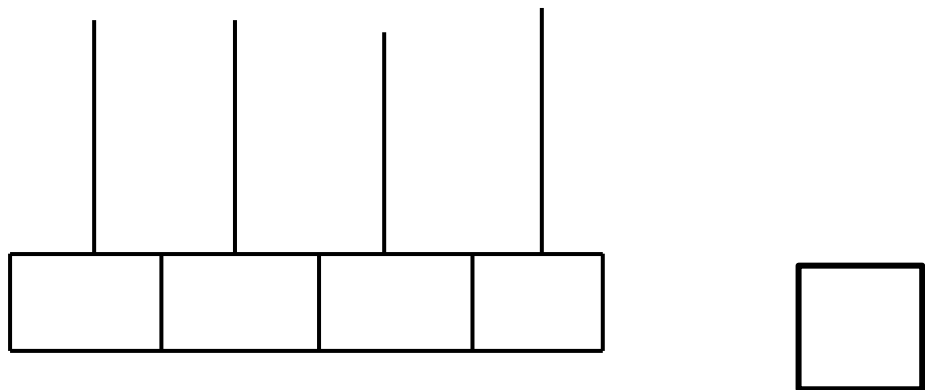
(b) Work out the size of the angle PRD. *(03 marks)*

28. A primary five pupil was given cards with digits: **4**, **2**, **0**, and **3** to form four-digit numerals.

   (a) Write the biggest and the smallest numbers formed.

       (i) biggest number formed   *(01 mark)*

       (ii) smallest number formed   *(01 mark)*

   (b) Represent the smallest number formed on the abacus below.
                                                (03 marks)

29. The interior angle of a regular polygon is twice its exterior angle.
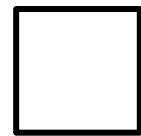   (a) Find the size of each exterior angle.   *(02 marks)*

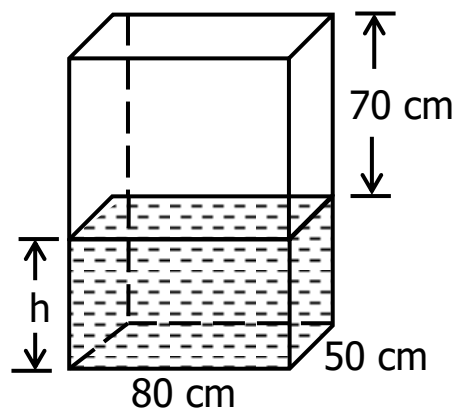   (b) Calculate its interior angle sum.   *(03 marks)*

30. Peter spent $\frac{1}{3}$ of his salary on food, $\frac{1}{4}$ of the remainder on rent and the rest on fees.

(a) What fraction of the salary did he spend on fees? *(03 marks)*

(b) If he spent sh. 180,000 on food, how much was his salary?
(02 marks)

31. The tank below has 120 litres of water in it. Study it carefully and answer the questions that follow.
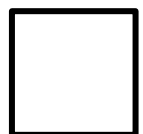

(a) Find the value of h *(02 marks)*

(b)   How many more litres of water should be added to fill the tank?

(02 marks)

32.   A motorist travelling at a speed of 80km/h covered a certain distance from town A to town B taking 3 hours. It rested at town B for a half an hour before continuing to town C a distance of 80km ridding at a speed of 40km/h.

(a)   How far is town B from town A.?   *(02 marks)*

(b)   Calculate the motorist's average speed for the whole journey.

(03 marks)

END