

MITYANA DISTRICT PRIMARY SCHOOLS' ACADEMIC BOARD
PRIMARY LEAVING MOCK EXAMINATIONS
2025
MATHEMATICS

Time Allowed: 2 Hours 30 Minutes

RANDOM NO.						PERSONAL NO.		

Candidate's Name:

Candidate's Signature:

READ THE FOLLOWING INSTRUCTIONS CAREFULLY:

1. Do not write your **school 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. This paper has **15 printed pages**.
3. Answer **all** questions. **All** the working for both sections **A** and **B** must be shown in the spaces provide.
4. **All working must** be written in **blue** or **black** ball point pen or ink. Any work done in pencil other than on 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 be read easily may lead to **loss of marks**.
7. 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 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
TOTAL		

SECTION A: 40 MARKS

Attempt all questions in this section.

Questions 1 to 20 carry two marks each.

1. Simplify: $6n + 2n + n$.

2. Work out: $\frac{5}{6} + \frac{1}{3}$

3. Express 4200 millimetres to decimetres.

4. Given that $n(A) = 20$, $n(B) = 30$ and $n(A \cap B) = 10$. Find $n(A \cup B)$.

Turn Over

5. Expand **3974** using powers of ten.



6. In a bag, there are 45 pens, if 6 are blue, 21 are red and the rest are black pens; Find the probability of picking a black pen at random.

7. Fill in the two missing equivalent numbers.

$2(\text{finite } 8) = 2, 10, 18, \underline{\hspace{2cm}}, \underline{\hspace{2cm}}$

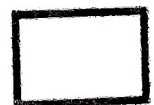
Turn Over

8. Using a ruler, a pencil and a pair of compasses only, construct an angle of 135° .

9. Work out: years months

$$\begin{array}{r} 8 \quad 06 \\ - 3 \quad 15 \\ \hline \\ \hline \end{array}$$

10. Find the **maximum** number of boys who can share 30 or 18 mangoes leaving no remainder.

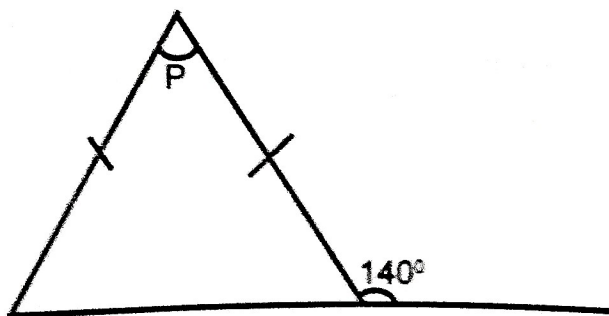


Turn Over

11. Mayora bought 4 textbooks at sh. 28,000 and later sold each textbook at sh. 9,000. Find the profit he made.

12. Find the number whose scientific form is 3.605×10^{-2} .

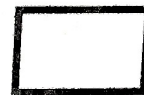
13. Calculate the value of p .



Turn Over

14. Increase sh. 24,000 by $33\frac{1}{3}\%$.

15. Find the median of; 23, 15, 24, 32, 19 and 14.

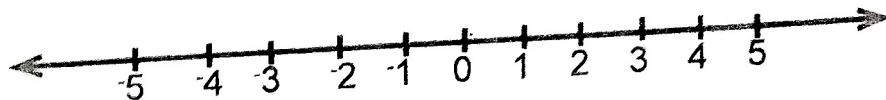


16. Okello used 15 litres of oil. This was $\frac{1}{3}$ of what he had. How many litres of oil did he have at first?

Turn Over

17. The subsets that can be formed from set Q are; $\emptyset, \{1\}, \{2\}, \{1, 2\}$.
Find the number of proper subsets that can be formed from set Q .

18. Work out $-3 - +4$ using the number line below.



19. Find the base two number that has been expanded to give;
 $(1 \times 100)_{\text{two}} + (1 \times 10)_{\text{two}} + (1 \times 1)_{\text{two}}$

Turn Over

20. **Subtract:** $3y - 5$ from $8y + 2$.



SECTION B: 60 MARKS

*Attempt **all** questions in this section.*

*Marks for **each part** of the question are **indicated** in the brackets.*

21. (a) Express $0.2333, \dots$ as a common fraction in its lowest term.

(03 marks)

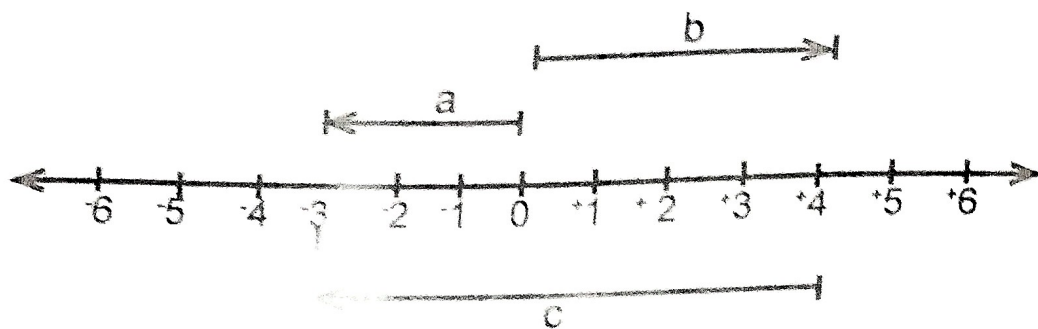
(b) Simplify $8 \div \frac{2}{3}$ of 6.

(02 marks)

Turn Over



22. Study the number line below and use it to answer the questions that follow:



(a) Find the integers represented by the following letters: (03 marks)

(i) a _____

(ii) b _____

(iii) c _____

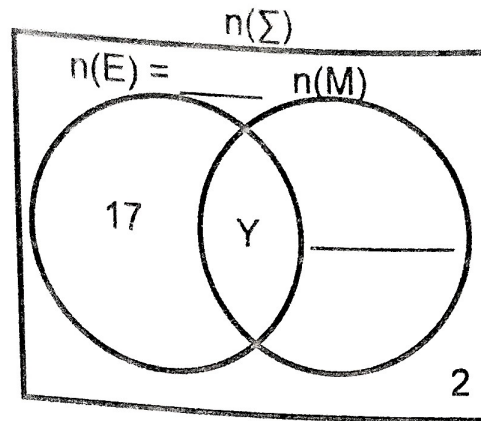
(b) Write the **mathematical** statement represented on the above number line. (02 marks)



Turn Over

23. In a class, 17 pupils like English only (E), 20 pupils like Mathematics only (M), Y pupils like both English and Mathematics and 2 pupils like none of the two subjects.

(a) Use the above information to complete the Venn diagram below. (02 marks)



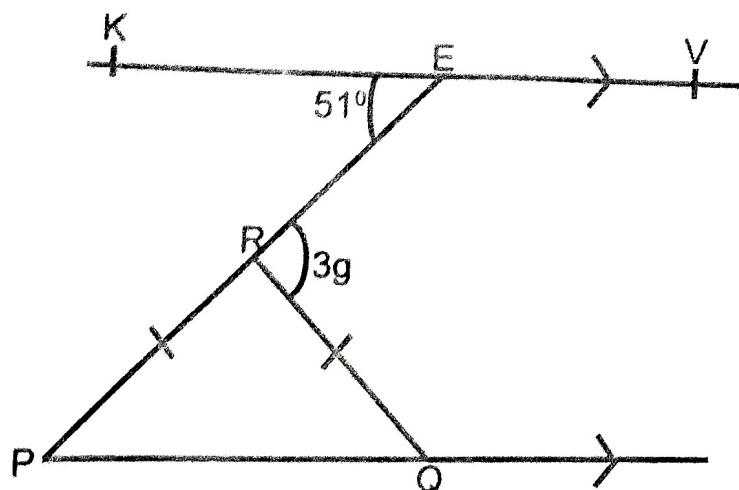
(b) If those who like English are equal to those who like Mathematics only, find the value of Y. (02 marks)

(c) How many pupils like only one subject?

(01 mark)

Turn Over

24. In the figure below, PQ is parallel to line KV ; Angle $QPR = PQR$.



(a) Find the value of g .

(03 marks)

(b) Work out the size of angle PRQ .

(02 marks)



Turn Over



25. The timetable below shows the journey made from Mityana to Iganga by a taxi with stopovers at Kampala and Jinja. Study and use it to answer the questions that follow.

TOWN	ARRIVAL	DEPARTURE
Mityana	_____	11:40 a.m.
Kampala	12:00 noon	12:40 p.m.
Jinja	2:30 p.m.	3:05 p.m.
Iganga	4:10 p.m.	_____

(a) How long did the taxi take to travel from Kampala to Jinja?
(02 marks)

(b) If Iganga is 630km away from Mityana, calculate the average speed of the taxi for the whole journey.
(03 marks)

Turn Over

26. From Village K, Village R is 70km away on the bearing of 060° and Village T is 60km away on the bearing of 150° from Village R.
- (a) Draw a sketch diagram to show the location of three villages.

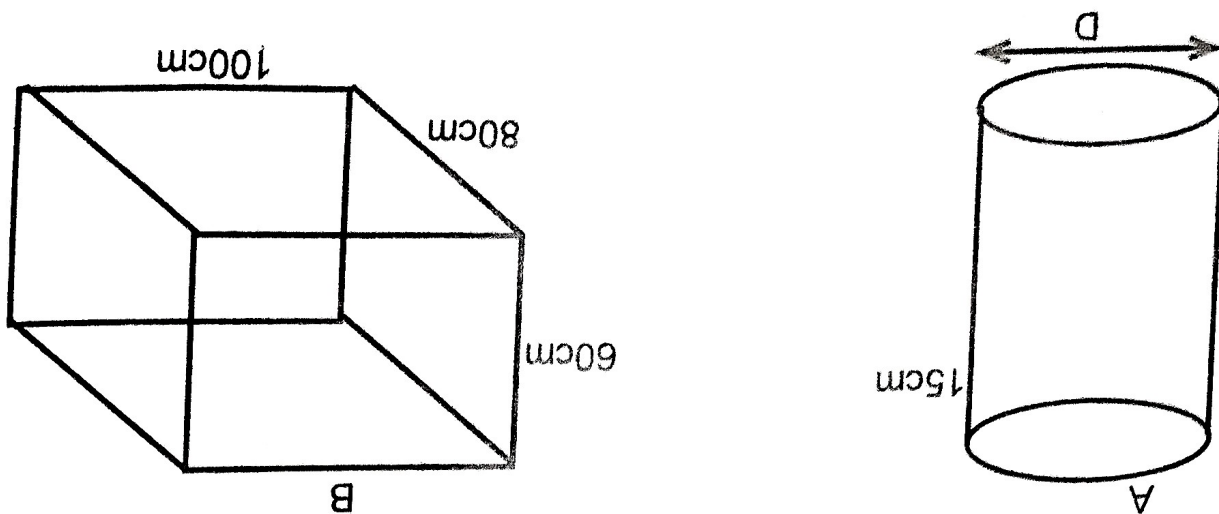
(01 mark)

- (b) By using a scale of 1cm to represent 10km, draw an accurate diagram to show the location of three villages.

(04 marks)



The cylindrical tins (A) were packed into the cuboid (B) below.



Turn Over

(a) Given that 20 cylindrical tins were packed along the first layer of the cuboid, find the value of D . (03 marks)

(b) Find the area of the above curved surface of the cylindrical tin. (02 marks)

28. (a) Study the sequence below:

6, 8, 11, 16, 23, $2p + 4$. Find the value of p . (03 marks)

(b) Given that 506K is a four digit number which is exactly divisible by 9. Find the value of K . (02 marks)



Turn Over

29. (a) Simplify: $8mn - 4ap - mn - ap$.

(02 marks)

(b) Given that $K = 11$, $m = 8$ and $n = 7$, evaluate: $\sqrt{Km - n}$

(03 marks)

30. Mr. Musige used 99 poles to fence around his circular garden. The distance between one pole to the next pole was 2 metres. Find the diameter of the garden.

(05 marks)



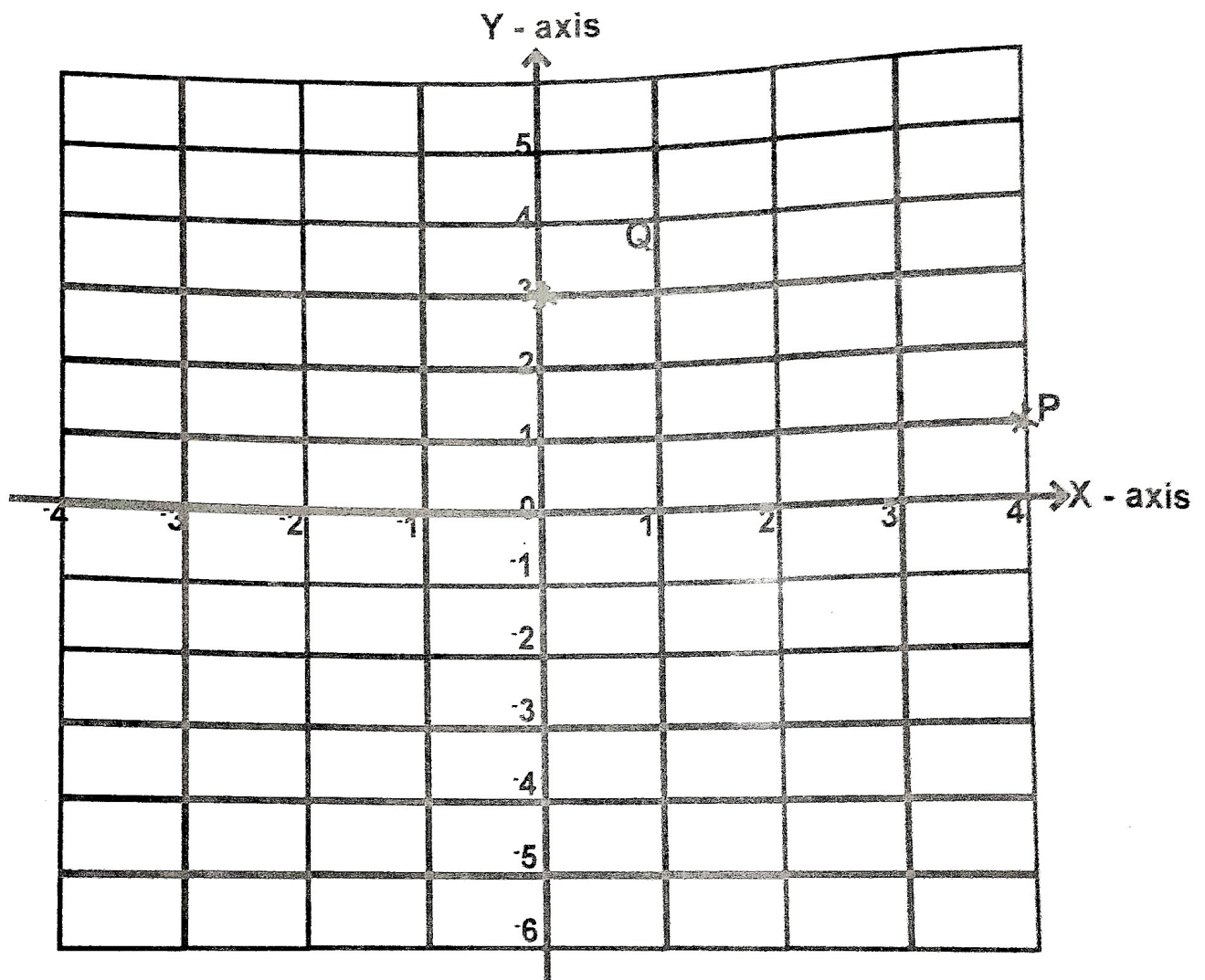
31. Gwokyala bought 15 glasses at sh. 800 each but during the transportation, W glasses got broken and sold the rest at sh. 1,200 each getting a profit of 10%. Find how many glasses got broken.

(05 marks)

Turn Over



32. Study the coordinate graph below and answer the questions that follow.



(a) List down the coordinates of;

(i) P

(ii) Q

(02 marks)

(b) Plot;

(i) R (-4, +1)

(ii) S (0, -4)

(02 marks)

(c) Join P to Q, Q to R, R to S and S to P to form a geometric figure.

(01 mark)



Turn Over