



KAMPALA CITY EXAMINATIONS BOARD

SUPER SET THREE

2025

MATHEMATICS

Time Allowed: 2 hours 30minutes

Random No.						Personal No.		

Candidates' name:

Candidates' signature:

District ID No.

--	--	--	--

Read the following instructions carefully:

- Do not write your **school** or **district name** anywhere on this paper.
- This paper has **two** sections: **A** and **B**. Section **A** has **20** questions and section **B** has **12** questions. The paper has **16 printed pages**.
- Answer **all** the questions. All the working for both sections **A** and **B** must be shown in the spaces provided.
- All** the 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.
- No calculators** are allowed in Examination room.
- Unnecessary **changes** in your work and handwriting that cannot be read easily may lead to **loss of marks**.
- Do not fill anything in the table indicated: **"FOR EXAMINERS' USE ONLY"** and in the boxes inside the question paper.

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

Official line: **CEO 0785119093** @ city exams

SECTION A:40MARKS

Answer **all** questions in this section

Questions **1** to **20** carry **two** marks each

1. Workout:

$$\begin{array}{r} 609 \\ + 412 \\ \hline \\ \hline \end{array}$$

2. Write in figures: Four million, four hundred sixty-four thousand, four hundred forty four.

3. Workout: $(3a - a) - (2a - a)$.

4. If p are positive integers, find the set of values which satisfies the inequality $4p + 2 \leq 10$.

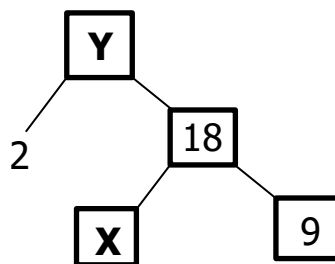
5. Workout: $494949 \div 7$.



6. During **FUFA** big league, team **A** scored 6 goals more than team **B**. If they both scored a total of 18 goals, how many goals did team **B** score?

7. Workout the sum of the first 3 cube numbers.

8. Find the value of **X** and **Y** in the factor tree below.

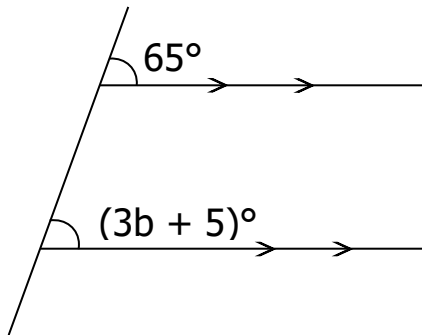


9. The average weight of 4 candidates is 36kg, when a fifth candidate joins them, the average age becomes 30kg. Find the weight of the fifth candidate.
10. Given that ★ represents 17 stars. Draw pictures to represent 51 stars.
-
11. A wheel makes $2\frac{1}{3}$ revolutions to cover 21m, How many revolutions will it make to cover a distance of 279m?
12. Dr. Ntambi Abdul Nasser walked 2.5km from his place of work to the bank. Express the distance he covered in metres.

13. Workout: $2h = 3$ (finite 5).
14. Joan paid sh.125,000 for an item. If the marked price of the item is sh.100,000, find the percentage discount on the item she bought.
15. In an election, Kapere got one thousand nine hundred nine votes. Express the number of Kaperes' votes in Roman numerals.
16. Oketcho tossed a dice once. What is the probability that a triangular number will appear on top?

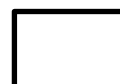
17. Find the greatest common factor of 12 and 36.

18. In the figure below, find the value of b .



19. What is $\frac{1}{3}$ of 12 girls?

20. Express 250g as a ratio of 1kg.



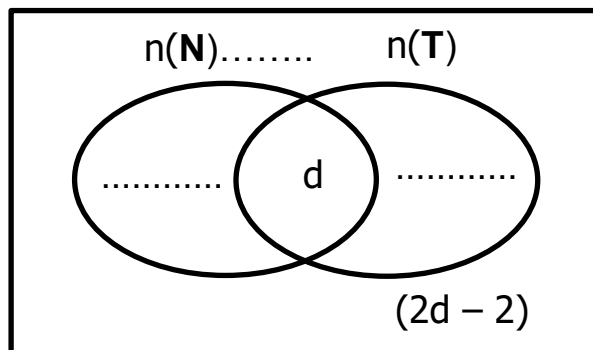
SECTION B: 60 MARKS

Answer **all** questions in this section

Marks for each question are indicated in the brackets

21. In a school, 18 pupils play Netball (N) only, d play both Tennis (T) and Netball, $(4d - 5)$ play Tennis but not Netball while $(2d - 2)$ play neither of the two games.

- (a) Use the above information to complete the Venn diagram below.
(03 Marks)

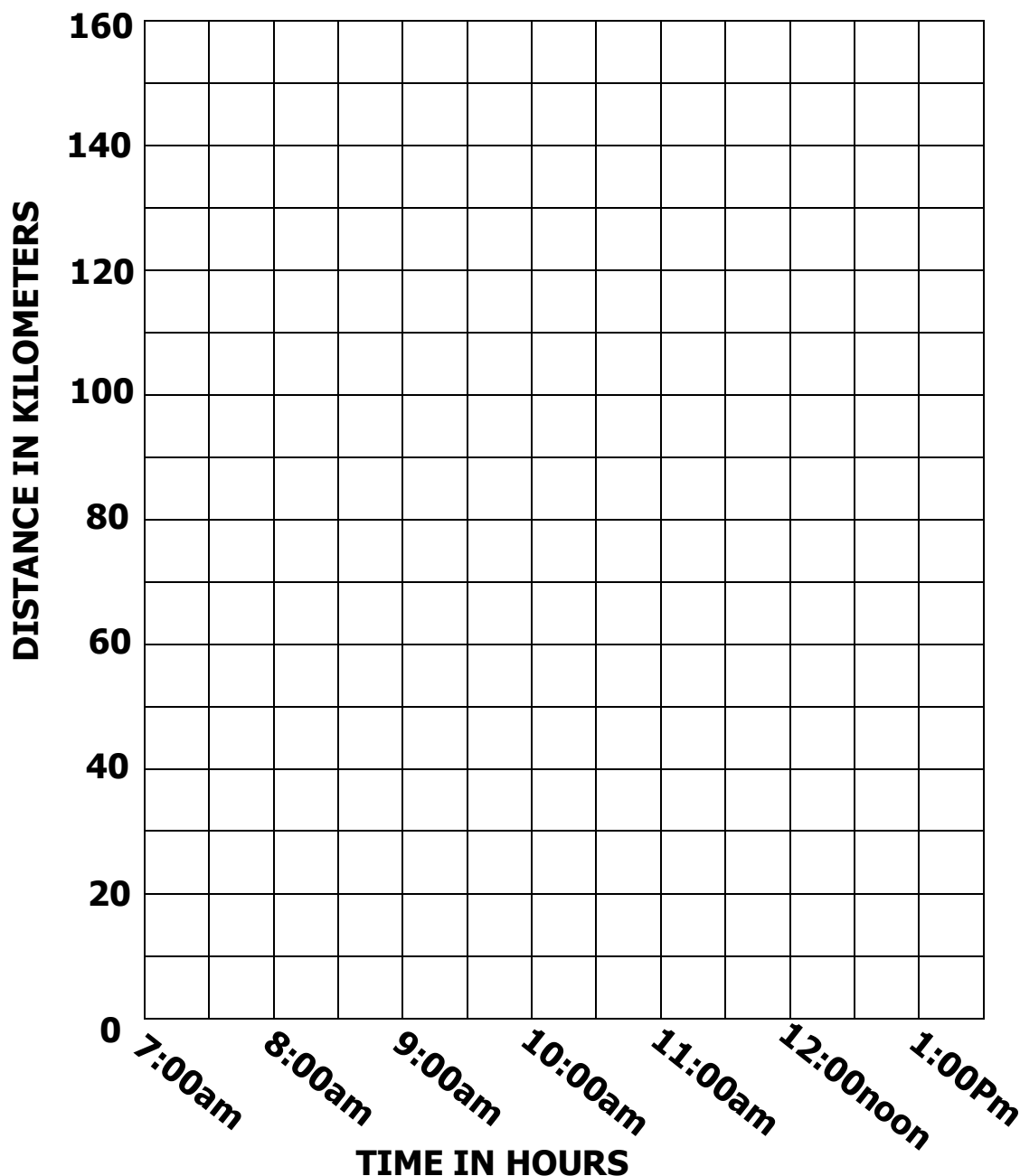


- (b) If there are 45 pupils who play one game only, find the value of d .
(02 Marks)



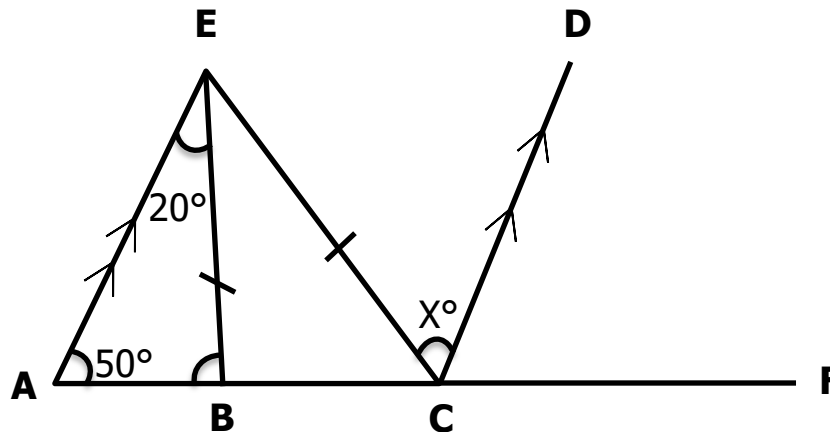
22. Okot left Soroti at 7:30am traveling at an average speed of 40km/h for 1 hour and 30 minutes. On his way, the car get a mechanical problem and it took him 1 hour to repair the car. He then continued his journey to Moroto at an average speed of 50km/h for $2\frac{1}{2}$ hours.

- (a) Use the information given to show Okots' journey on the graph below. (03 Marks)



- (b) Calculate Okots' average speed for the whole journey. (03 Marks)

23. In the figure below, **AE** and **CD** are parallel lines. Angle **BAE** = 50° and **AEB** = 20° . Study it carefully and answer the questions that follow.

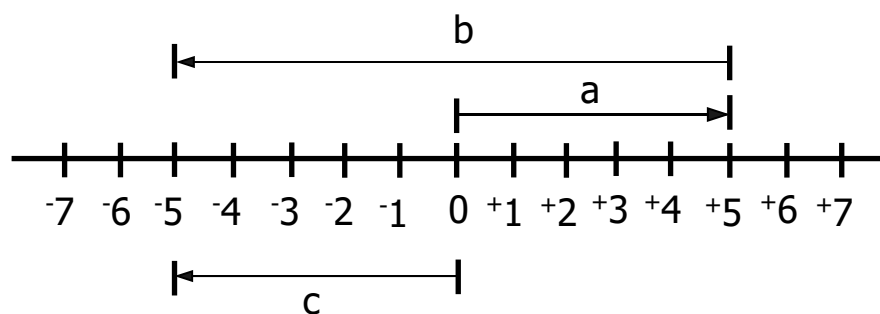


- (a) Find the value of **X**. (04 Marks)

- (b) The interior and exterior angles of a regular polygon are in the ratio 4:2 respectively. How many sides has the polygon? (02 Marks)



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



- (a) Write the integers represented by the letters; (01 Mark each)

(i) a

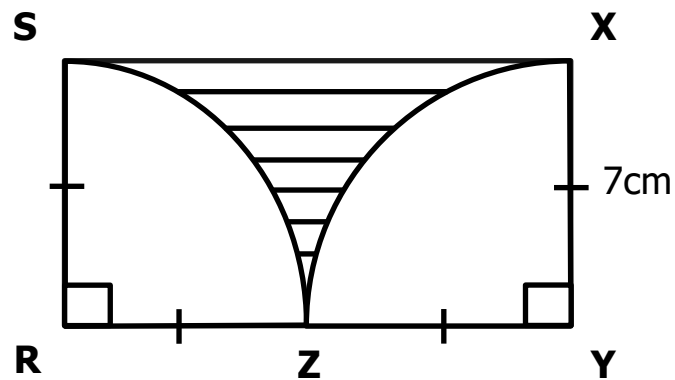
(ii) b

(iii) c

- (b) Write the mathematical statement shown on the above number line. (02 Marks)



25. The figure below is a rectangle where length $XY = 7\text{cm}$, and ZYX forms a quadrant of a circle. Study and use it to find the perimeter of the shaded part. (05 Marks)



26. Given that $y = (2x - 3)$, complete the table below. (05 Marks)

X	2		3		-3
Y		-5		5	

27. Town **K** is 50km North of town **M**. Town **L** is 70km from town **M** on a bearing of 105° .

(a) Draw an accurate diagram to show the three towns. (*04 Marks*)
(Scale 1cm:10km)

(b) Find the bearing of town **K** from town **L**. (*02 Marks*)



28. Below is a daily time table for Zawadi bus from Kampala to Moyo. Study it carefully and answer the questions that follow.

Town	Arrival	Departure
Kampala		0600hrs
Lira	0830hrs	0900hrs
Gulu	1150hrs	1200noon
Adjumani	1430hrs	1500hrs
Moyo	1640hrs	

29. (a) At what time does the bus leave Kampala? *(01 Mark)*

- (b) Express the time the bus left Gulu in analog clock system. *(02 Marks)*

- (c) If the distance from Kampala to Moyo is 356km, calculate the average speed for the whole journey. *(02 Marks)*



30. Ben, Bernard and Bena shared some money in the ratio of 2 : 4 : 8 respectively.

(a) If Ben and Bernard got sh. 12,000 less than Bena, how much money did they share altogether? *(03 Marks)*

(b) How much more did Bena get than Ben? *(03 Marks)*

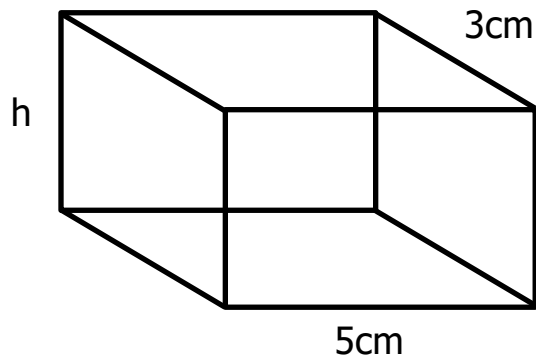
31. Abdallah is 5 years younger than Abdul, Abdu is a third the age of Abdallah. The total age of the three boys is 17 years.

(a) Calculate the age of Abdu. *(03 Marks)*

(c) Workout: $0.3m + 0.6 = 2.4$. *(03 Marks)*



32. The volume of the cuboid below is 90cm^3 . Study it carefully and answer the questions that follow.



- (a) Find the value of h. (02 Marks)

- (b) Calculate the total surface area of the above figure. (03 Marks)



THE END