



THE E-LEARN EXAMINATIONS BOARD

PRE-PLE SET **TWO / TEN**

2025

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Index No.

Random No.						Personal No.		

Candidate's Name:

Candidate's Signature:

School Name:

Read the following instructions carefully:

1. Do not write your **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 **12 printed pages**.
3. Answer **all** questions. **All** the working for both sections **A** and **B** must be shown in the spaces provided.
4. **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.
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

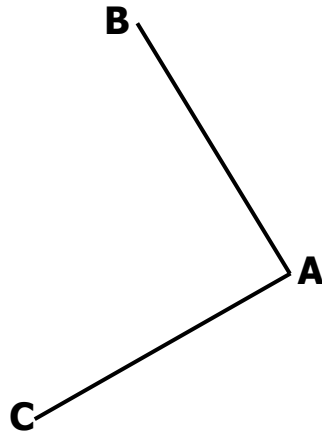
Answer **all** the questions in this section.

Questions 1 to 20 carry two marks each.

1. Workout: $39 \div 3$
2. Write in figures: **Six hundred thousand fifty** in figures.
3. Simplify: $4k - 3m + k - m$
4. Given that $R = \{m,a,n,g,o,e,s\}$ and $N = \{a,g,o,n,y\}$, find **$n(R - N)$**
5. Convert: 2100 grammes to kilograms.

6. A parent bought 2 books at sh. 8000 and 3 fountain pens at sh. 10,500. Which of the above items is more expensive?

7. Using a pair of compasses a ruler and a pencil, bisect obtuse angle **BAC**.



8. Without dividing, show that 510 is divisible by 6.

9. Rose scored 8 marks in a test marked out of 10.
Shade the diagram below to represent the marks failed.

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10. Using the symbol $>$, $<$ or $=$, complete the statement below:

-4×3 -2×3

11. A teacher recorded the attendance of pupils on a certain week as shown:
30, 35, 33, and 35. Find the median number of pupils who attended that week.

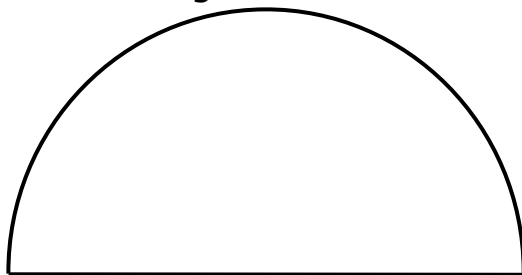
12. A pupil left school at 5:00 pm and walked for 1 hour 35 minutes. Write the time the pupil reached home in a 24-hour clock system.

13. Workout:
$$\begin{array}{r} 1\ 0\ 1_{\text{two}} \\ -\ 1\ 0_{\text{two}} \\ \hline \end{array}$$

14. A motorist covered a distance of 120 km in 45 minutes. Calculate the speed used by the motorist.

15. A bus left Malaba border for Elegu border at 7:00 am and took 16 hours traveling. At what time did the bus reach its destination?

16. A regular polygon has 12 right angles. Name the polygon.
17. Find the next number in the sequence 15, 17, 20, 25, 32,
18. Given that set $R = \{c, r, a, t, e\}$. Calculate the number of proper subsets in set R.
19. A trader borrowed a loan of Sh. 120,000 from a village SACCO, which gives an interest rate of 10% per month. Calculate the interest the trader paid back after 2 years.
20. The length of the arc **BC** is 44dm. Find its diameter.
Circumference = Length of arc **BC**

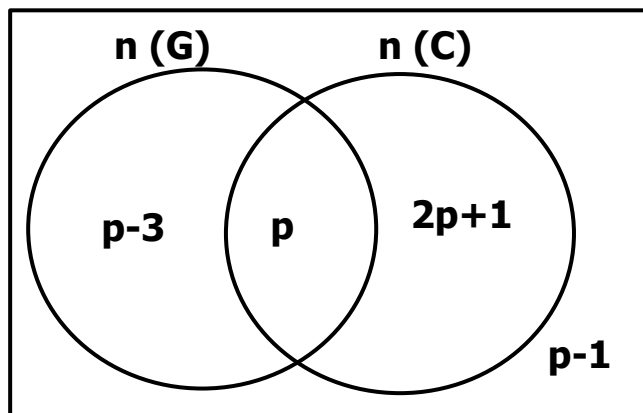


SECTION B: 60 MARKS

Answer **all** the questions in this section.

Marks for each question are indicated in brackets

21. The Venn diagram below shows the tourists who visited a zoo and saw Giraffes (G) and Cheetahs (C). Study it and answer the questions that follow.



- (a) If 28 tourists saw only one type of animal, find the value of p . (03 marks)
- (b) How many tourists saw Giraffes? (01 mark)
- (c) Work out: $3.5 - 6.08 + 5$ (02 marks)
22. Okello paid **sh.180,000** for a goat, which was sold by Akatukunda at a 20% profit. He later sold it to Abindu at a 10% loss.
- (a) How much did Akatukunda buy the goat? (03 marks)

(b) How much money did Abindu pay the goat?

(02 marks)

23. Using a ruler, a pencil and a pair of compasses only, Construct a parallelogram ABCD in which $AB = 7\text{cm}$ $\angle ABC = 120^\circ$ and line $BC = 5\text{cm}$ (05 marks)

(b) Drop a perpendicular from A to AB at X

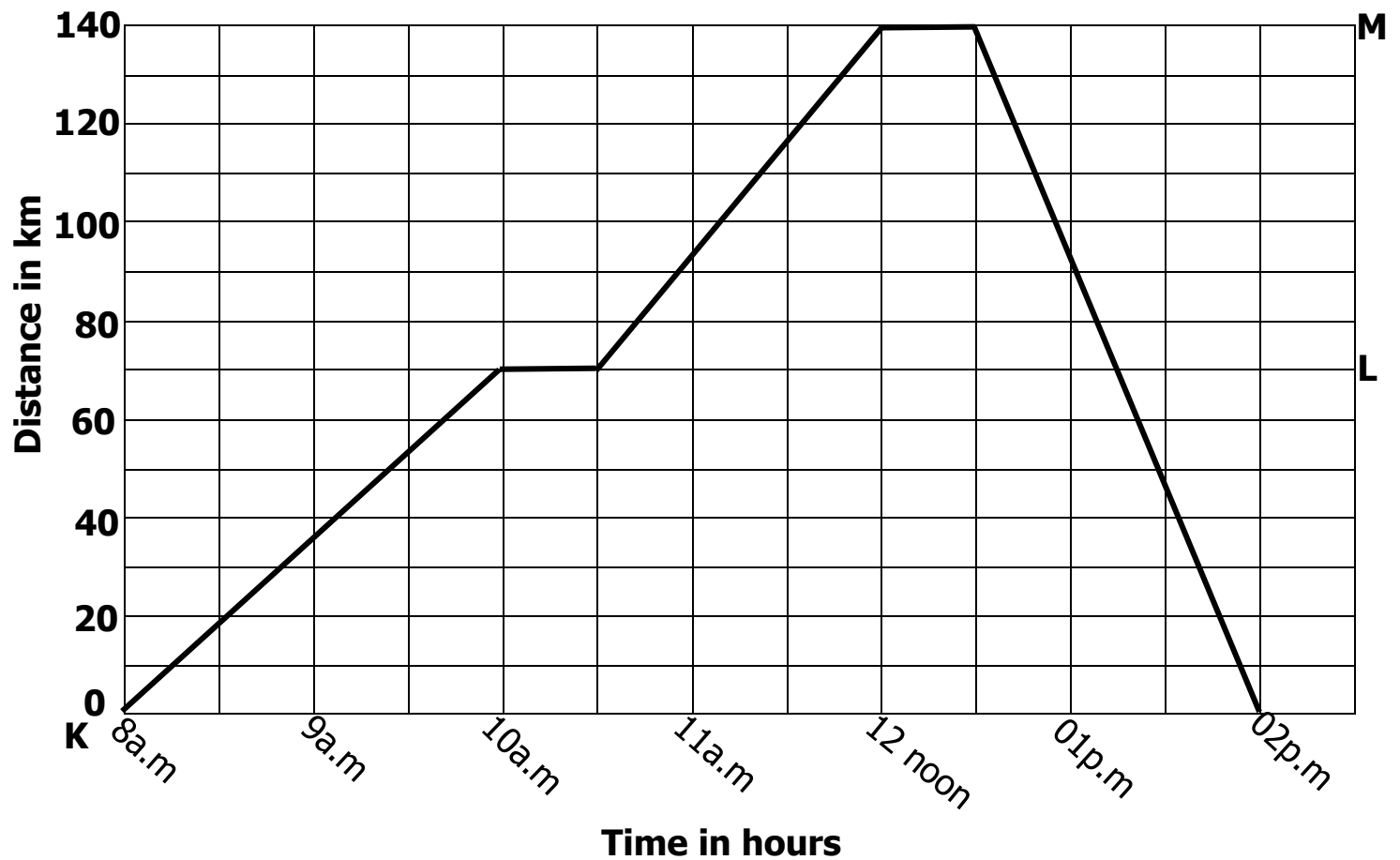
24. (a) Solve $\frac{x+3}{2} = \frac{2x-4}{3}$ (03 marks)

- (a) Given that $a=3$, $b=-2$ and $c=4$. Find the value of $\frac{3a-(a-c)}{b}$ (02 marks)

Turn Over

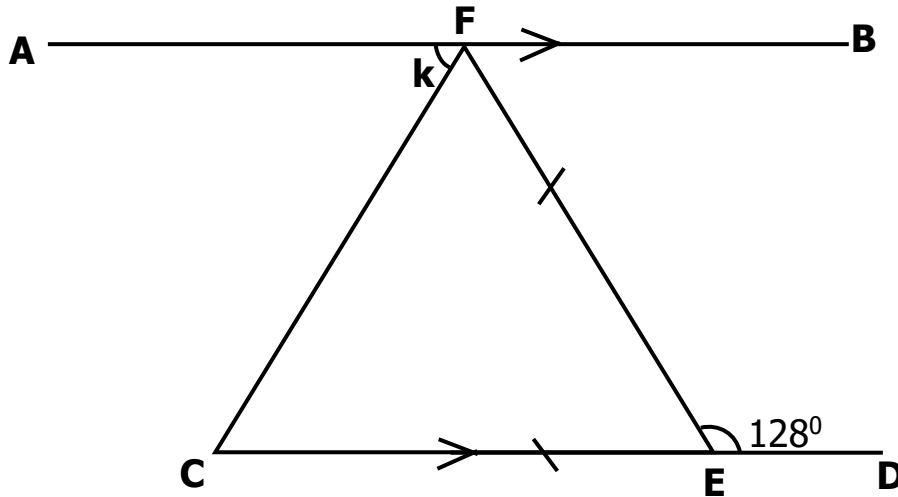
25. On his farm, Maganda rears goats and guinea fowls. Altogether, the animals have 31 heads and 86 legs. Find the number of goats and guinea fowls he keeps. *(04 marks)*
26. Given the digits 6, 3, 0 and 4, use them to answer questions that follow.
- (a) Form the smallest and largest 4-digit numerals from using the above digits and find their sum. *(02 marks)*
- (b) Find the difference between the value of 4 and the place value of zero from the smallest numeral formed in (a) above. *(03 marks)*

27. The graph below shows the journey of a cyclist from town **K** to town **M** via town **L** and back to town **K**. Study it and answer the questions that follow.



- (a) How far is town **M** from town **L**? (01 mark)
- (b) Find the total time the cyclist took at the stopovers. (01 mark)
- (c) Calculate the cyclist's average speed for the whole journey. (03 marks)

28. In the diagram below, line **AFB** is parallel to line **CED**. **EFC** is an isosceles triangle and angle **FED** = 128° . Study it carefully and use it to answer the questions that follow.



- (a) Find the value of **k** in degrees.

(03 marks)

- (b) Calculate the size of angle **EFA**.

(02 mark)

29. The exchange rates in afro bank were displayed as follows:

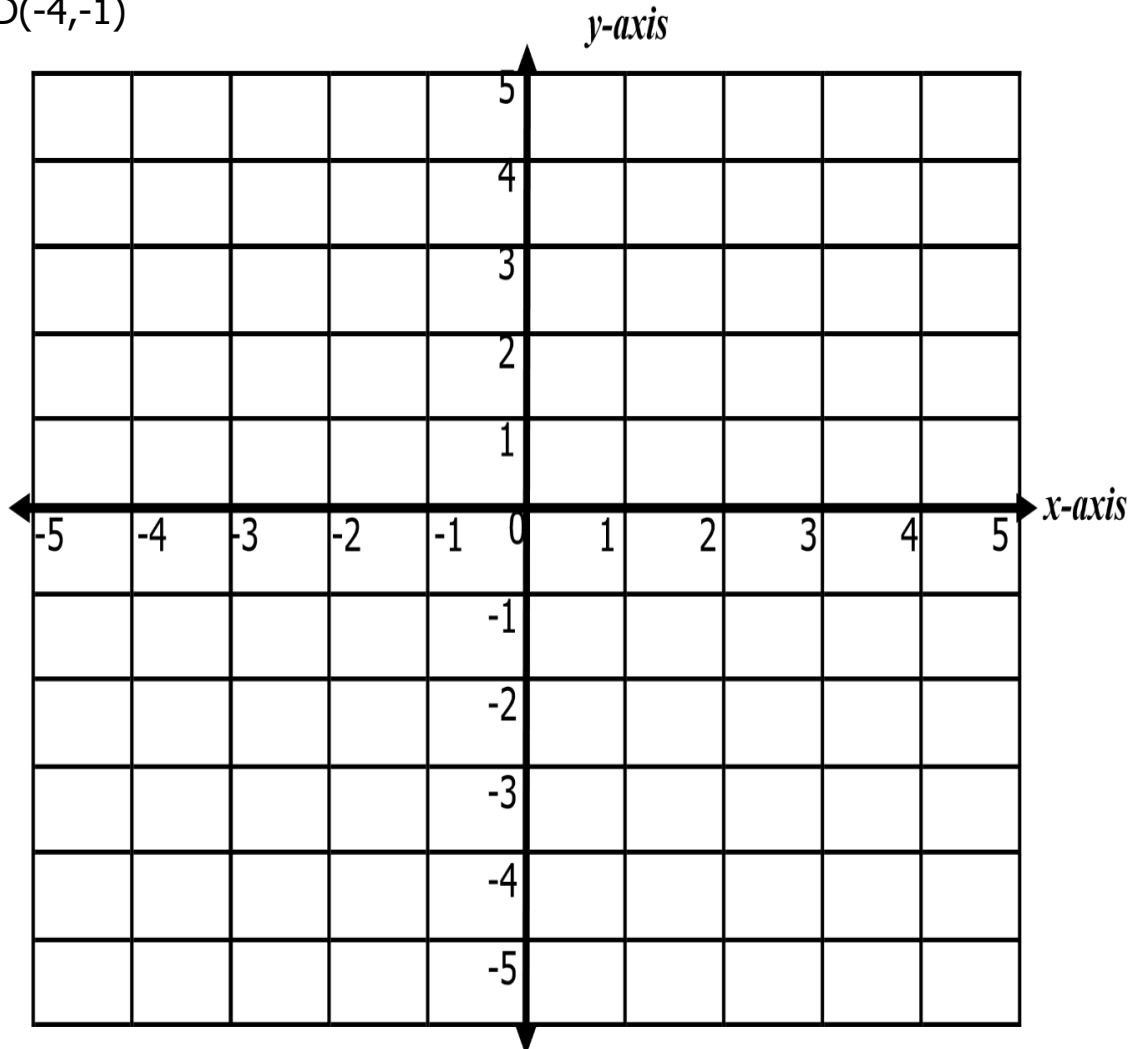
1 US dollar (\$) = Ugsh. 3650
1 British Pound Sterling (£) = Ugsh. 4500
1 Kenya shilling (Ksh) = Ugsh. 28.30

- (a) Convert Ksh. 7500 to Uganda shillings.

(02 marks)

- (b) A trader bought two fridges at \$ 900. How many Pounds Sterling did the trader pay for each fridge? *(04 marks)*

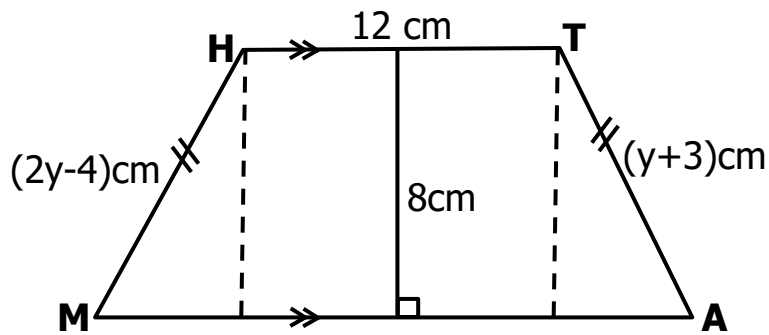
30. On the grid below, plot the following points: A(2,2), B(2,-1), C(-2,2) and D(-4,-1)



- (a) Join points **A** to **B**, **B** to **D**, **D** to **C** and **C** to **A**. *(04 marks)*
- (b) Name the shape formed after joining points A to B, B to D, D to C and C to A. *(01 mark)*

31. A jerry can full of cooking oil weighs 20.58kg. The empty jerry can weigh 5.58kg.
Find the mass of the jerry can when it is $\frac{4}{5}$ full of cooking oil. (04 marks)

32. Use the figure below to answer questions that follow.



- (a) Find the value of **y**: (02 marks)
- (b) Find the perimeter of the figure **MATH**. (04 marks)

END