



DELTA EXAMINATION SERIES 2025

'Triumph beyond the sky'

P.7 SECRET SET ONE 2025

MATHEMATICS

Time allowed: 2Hrs 30Mins

RANDOM NO.						PERSONAL NO.		

PUPIL'S NAME:.....Stream.....

SCHOOL NAME:.....DISTRICT.....

Read the following instructions carefully;

1. This paper is made up of two section: A and B.
2. Section A has 20 questions (40marks)
3. Section B has 12 questions (60marks).
4. Answer ALL questions in both section A and B.
5. All answers must be written in the space provided in blue or black ball point pens and ink. Only diagrams should be done in pencil.
6. Unnecessary crossing of answers will lead to loss of marks.
7. Any handwriting which cannot easily be read may lead to loss of marks.
8. Do not fill any thing in the boxes indicated **FOR EXAMINER'S USE ONLY**

FOR EXAMINER'S USE ONLY		
Qn No.	Marks	Initials
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*** questions in this section

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

1. Work out: **$429 + 43$**
2. Express **CXCVI** as Hindu- Arabic numerals.
3. If **$K = \{ \text{odd numbers less than } 10 \}$** .
Calculate the number of subsets in **K**.
4. The ratio of boys to girls is **2:3**. If the class has **27** girls. How many pupils are in the class?
5. Find the range of the next two numbers in the sequence;

1, 4, 9, 16, ____, ____

6. Simplify: **$4 + -7$**

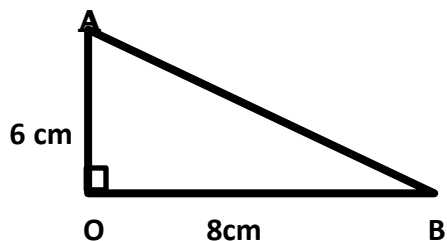
7. Solve for m: **$4m - 2 = 22$**

8. Tonny bought 1500g of salt. How many kilogrammes of salt did he buy?

9. A forty minute game ended at 9:20am. At what time did the game start?

10. Without dividing, show that **12558** is divisible by **7**.

11. Find the length of AB of the figure below.



12. Find the smallest number of apples which can be shared among 6 boys or 8 girls and leaves 2 as a remainder.

13. A trader bought a turkey at sh.40,000 and sold it making a loss of sh.2,000. Calculate his percentage loss.

14. Work out the sum of the value of 4 and place value of 6 in 74261.

15. Use distributive property to work out $(60 \div 5) - (40 \div 5)$

16. Joram scored the following marks in E.O.T exams:

MTC=70% , SCI=65%, ENG=80%, SST=70% and RE=90%.
Calculate his modal mark.

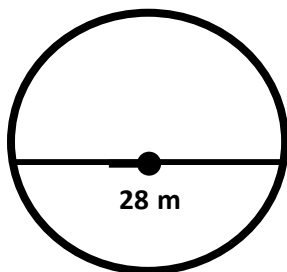
17. Convert 21 33 hours into a 12 hour clock system.

18. Given that 🍌 represents 7 mangoes.

How many pictures will represent 105 books?

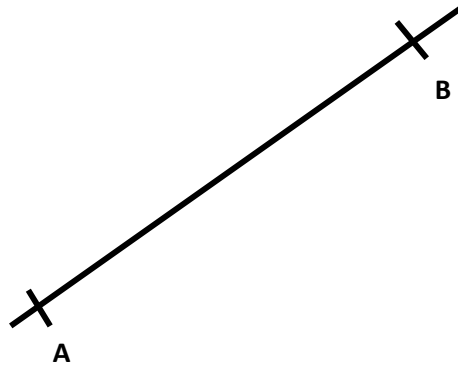
19. Below is a circular garden. Find the total distance round the garden.

(Take π as $\frac{22}{7}$)



20. With the help of a pair of compasses, ruler and a very sharp pencil only, drop a perpendicular bisector from point Z to meet line AB at W.

• Z



SECTION B: 60

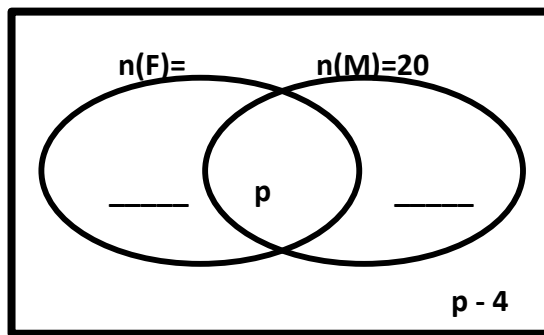
MARKS

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

Marks for each question are indicated in bracket

21. At a birthday party, 20 guests took Mirinda $n(M)$, 11 guests took fanta only, p guests took both mirinda and Fanta while $(p-4)$ guests took other drinks.

a) Complete the venn diagram below. **(2marks)**



b) If 3 guests took stoney, how many guests attended the party?

(3marks)

22.a) Given that $24_w = 14_{ten}$.Find the unknown base. **(3marks)**

b) Given the number 375, complete correctly. **(2marks)**
____Tens____Ones____Hundreds

23.In a P.7 class, 15% of the boys were absent for the Mock Examinations, 25% of the boys were present.

a) Find the percentages of the girls in the class. **(2marks)**

b) If there are 30 girls in the class, calculate the number of pupils in the whole class. **(3 marks)**

24.a) Convert 5 metres per second into kilometre per hour.
(2marks)

b) A taxi moved a distance of 180km in 180 minutes. Calculate the speed the taxi was using in kilometer per hour.**(3 marks)**

25.The base area of a rectangular water tank is 1000cm^2 . If the tank has a height of 100cm '

a) Find the capacity of the water tank. **(2marks)**

b) If Henry was asked to fill the tank using a litre cups of water.

How many cups did he use to fill the water tank completely?

(2marks)

26. **The table below shows the rates at which a forex bureau buys and sells United States dollars and Kenya Shillings in Uganda shillings. Use it to answer the questions that follow.**

Currency	Buying rate	Selling rate
1 US dollar	Ugsh.3500	Ugsh.3650
1 KSh	Ugsh.30	Ugsh.32

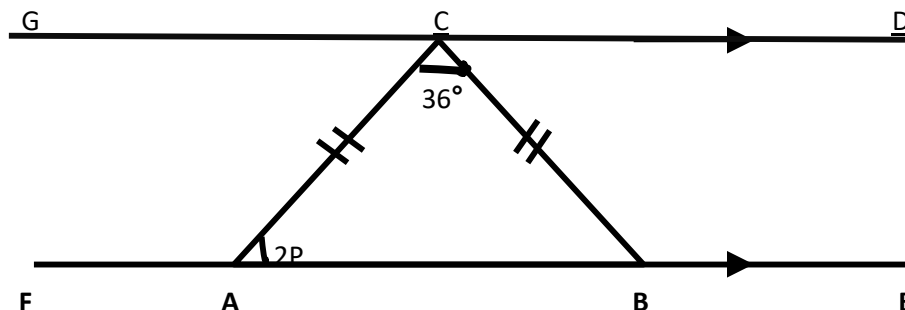
a) Jimmy had Ksh.18,250 and bought an air ticket using US dollars.
How many US dollars did he pay for the ticket? **(3 marks)**

b) If Nefisha had \$400 and bought a laptop in Kenya shillings.
What was the cost of the laptop in Kenya shillings? **(3marks)**

27. Okoth deposited sh.100,000 in a bank which offers an interest rate of 10% per year.

After how many months will her account yield an amount of sh.102500?
(4marks)

28. Study the diagram below and use the information given to answer the questions that follow.



a) find the value of p (2marks)

b) Find the size of angle marked; **(2marks each)**

i) CBE

ii) GCA

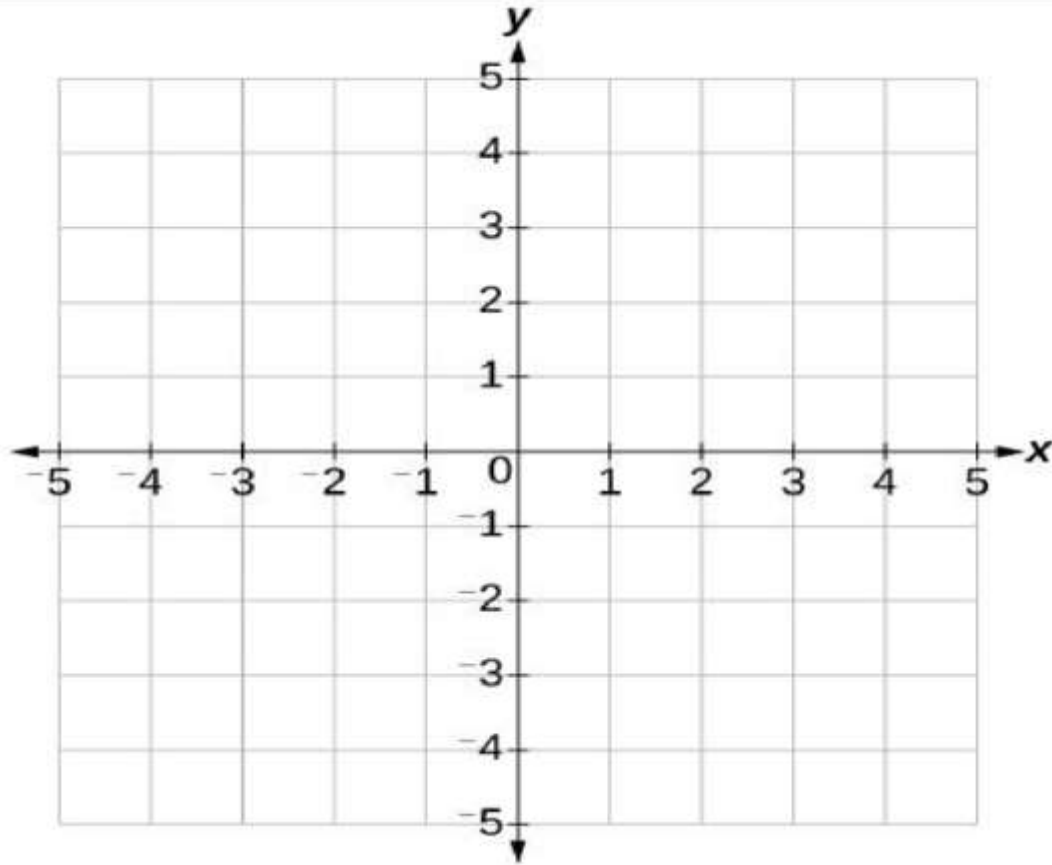
29. Given the equation of the line K is $y = 3x - 1$

a) Complete the table below. **(2marks)**

X	1	___	0	___
y	___	5	___	-4

b) Plot the above coordinates on the grid below to show the line.

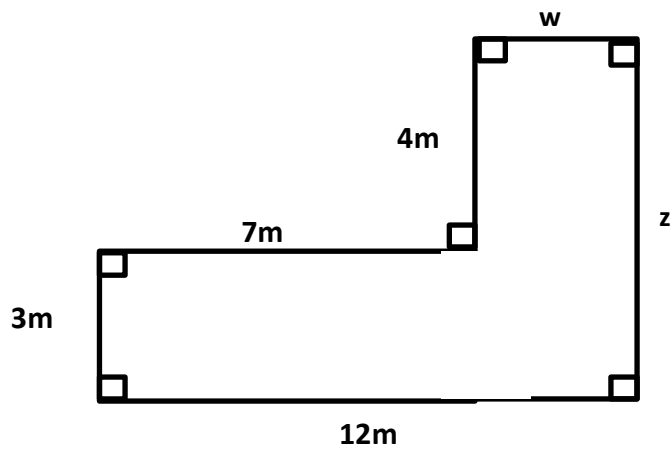
(4marks)



30.a)simplify: $3^2 \times 27 \times 3^3$

b) Subtract: $p + 2$ from $2p - 5$ **(2marks)**

31. Study the figure below carefully and use it to answer the questions that follow.



a) Find the value of **w** and **z**.

(2marks)

b) Calculate the area of the entire figure.

32. Using a pair of compasses, ruler and a very sharp pencil only,

- a) Construct a triangle **PQR** where line **PQ** = 5cm, angle **PQR** = 105° and line **QR** = 3.5cm. **(4marks)**

- b) Measure angle **QPR** **(1mark)**

END