



DELTA EXAMINATION SERIES 2025

‘Triumph beyond the sky’

P.7 SECRET SET THREE 2025

MATHEMATICS

Time allowed: 2Hrs 30Mins

RANDOM NO.						PERSONAL NO.		

PUPIL'S NAME:.....

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)

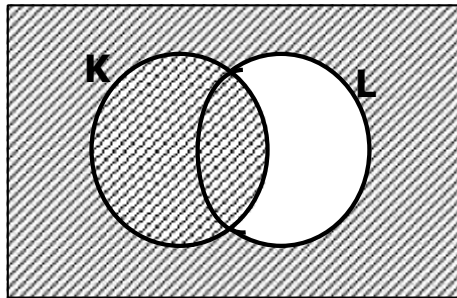
Questions 1 to 20 carry 2marks each

1. Work out: **52×3**
2. Write **four hundred fifty thousand, ninety** in figures.
3. Given that set $A = \{\text{all prime numbers less than } 7\}$. How many proper subsets can be got from set A?
4. Simplify: **$-7 - -6$** .
5. Find the LCM of **6** and **8**
6. What is the value of **8** in the figure **3876**?

7. How many similar strides of 20cm can a boy make to cover a distance of four metres?

8. Using a pair of compasses, a ruler and a sharp pencil only, construct an angle of 105° in the space provided below.

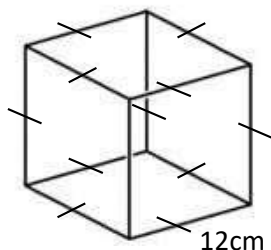
9. Use set notations to describe the shaded region on the venn diagram below.



10. Five pens cost shs.15000. How many similar pens can one buy with sh. 45000 at the same rate?

11. Solve for M: **$2(m - 6)=8$** .

12. The DEO distributed **2525** books equally among the five schools.
How many books did each school get?
13. A P.7 candidate did seven consecutive tests and scored. **60, 90, 45, 58, 60, 82, 76**. Work out the candidate's modal frequency.
14. Express **20cm** as a ratio of **2m**.
15. There are **20** electric poles in a straight line. If the distance from the first to the **20th** Pole is **380m**, find the interval between every two poles.
16. The figure below is a cube. Use it to answer the question that follow



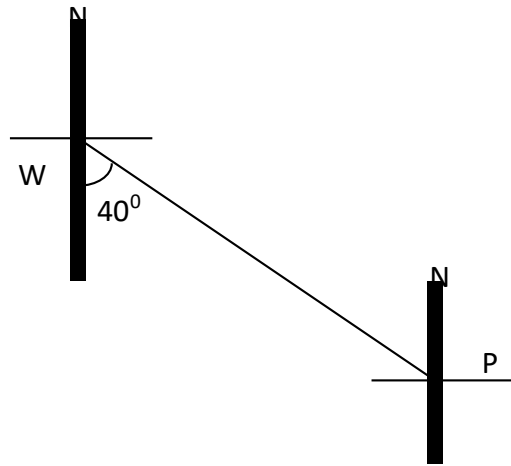
Find the capacity of the cube in litres.

17. When a dice is tossed once, what is the probability of picking a factor of six at random?
18. Uganda Cranes match against Egypt kicked off at a quarter to 4:00p.m. Write this time in a 24 hour clock time.
19. A tourist has Ug shs. 159750 and wants to buy US dollars from a forex bureau.

How many US dollars will the tourist get?

Rate at which the bureau buys	Rate at which bureau sells
UD \$ 1 = Ug sh. 3500	US \$ 1 = Ug shs. 3550

20.



What is the bearing of town **W** from town **P**?

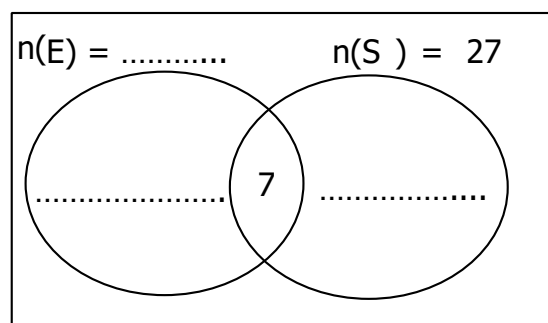
SECTION B.(60 MARKS)

21. In a class of 48 pupils, 27 like Science(S) , y pupils like English(E) only, 7 like both subjects and 5 dislike Science and English.

(a) Use the information given to complete the Venn diagram below.

$$n(\Sigma) = 48$$

(3 marks)



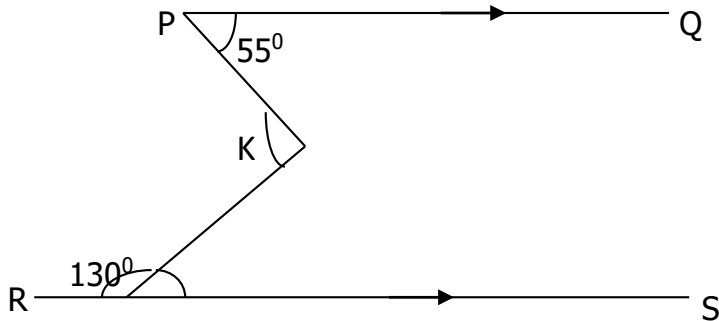
(b) Find the value of y (2 marks)

(c) How many pupils like only one subject? (1 mark)

22. (a) Express **142** in powers of **3**. (2 marks)

(b) Write the number whose standard form is **8.74×10^3** .
(2 marks)

23. (a) In the diagram below, **PQ** is parallel to **RS**. Study the diagram and use it to find the size of angle **K**. **(2 marks)**



- (b) What angle is $\frac{1}{4}$ of its supplement? **(3 marks)**

24. John bought the following items from Cynibel super market.

2 loaves of bread at shs.4500 per loaf.

600g of sugar at shs.4500 per kg

1 $\frac{1}{2}$ kg of meat at shs.15000

A dozen of glasses at shs.3000 a pair.

- (a) Calculate his total expenditure. **(3 marks)**

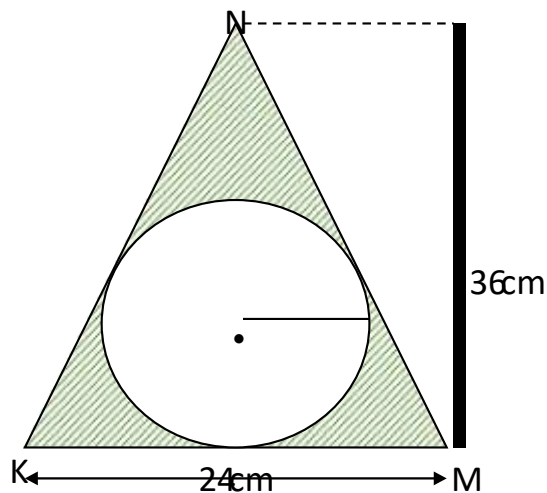
- (b) If the man was given a discount of 10%, find his change if he went with shs.50000. (**2 marks**)

25. (a) Using a ruler, a pair of compasses and a pencil only, construct an isosceles trapezium in which $PQ = 8\text{cm}$, $PS = QR = 4.5\text{cm}$, $\angle SPQ = \angle RQP = 60^\circ$. Join point R to point S. (**5 marks**)

(b) Measure SR..... (**1 mark**)

26. A book cost $(x + \text{sh}400)$ while a pen cost $(x - \text{sh}100)$. If the total cost of three pens and two books is shs. 6500, find the cost of each item. (**5 marks**)

27. The figure below shows a circle inscribed in a triangle whose base is 24cm and height 36cm. Given that the area of the shaded part is 124cm^2 . (Use $\pi = \frac{22}{7}$)

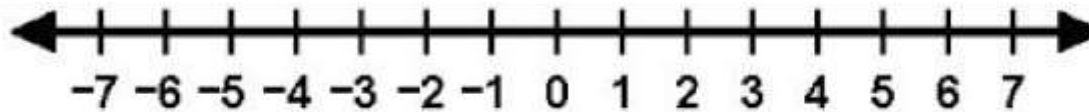


- (a) Find the area of the circle.

(b) Find the radius of the circle.

(3 marks)

28. Ogaba learns a new dance in which he takes 6 steps forward followed by 4 steps backward. Represent the above 2 measures of the dance on a numberline to find how far away the dancer was from his starting point. **(4 marks)**



29. Sonnia gave $\frac{1}{3}$ of his land to his brother Joseph, $\frac{1}{4}$ to Maria his sister and he was left with 40 acres of land.

a)What fraction did he give to both Joseph and Maria? **(2 marks)**

- (a) How big was Sonnia's land before giving part of it to Joseph and Maria? (**3 marks**)

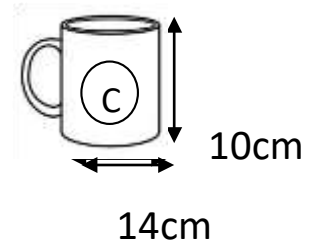
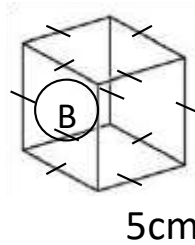
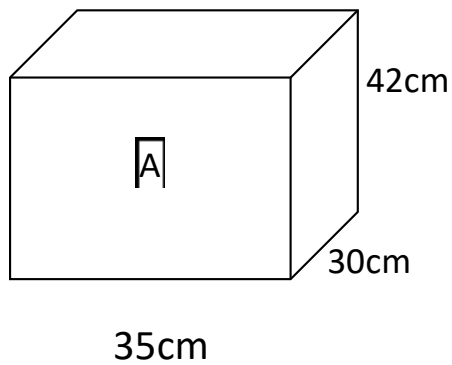
30. A bus travelled from Gulu to Masindi at a speed of 90km/hr for 2hrs 30 minutes and later returned to Gulu at a steady speed of 100km/hr.

- (a) How far is Gulu from Masindi? (**2 marks**)

- (b) Calculate the return time to Kisoro (**1 mark**)

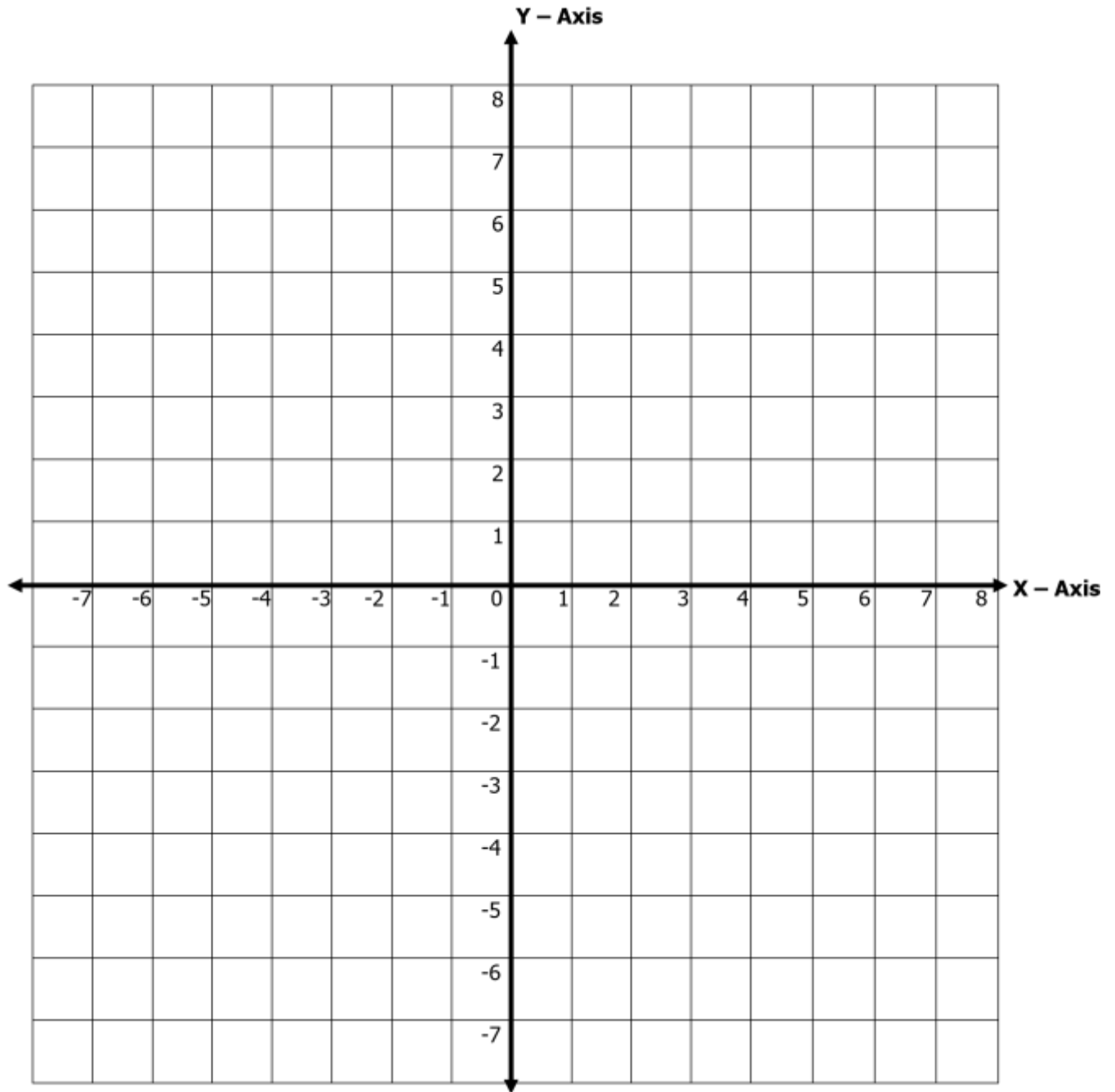
- (c) Calculate the average speed for the whole journey. (**2 marks**)

31. Study the diagrams below and use them to answer questions that follow.



- (a) How many cubes of type **B** can be packed in prism **A**? **(2 marks)**
- (b) How many layers of tins **C** can be arranged in Prism **A**? **(1 marks)**
- (c) If prism **A** contains water and John uses tin **C** to draw water from it, how many cupfuls of **C** can he get? **(2 marks)**

32. On the grid below plot points **K**(-3, -3) **L**(2, -3) **M**(5, 4) **N**(0, 4)
(4 marks)



.....**END**.....

