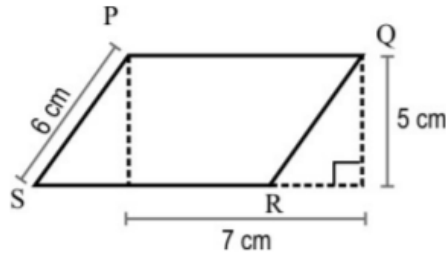


SECTION A (10 X1 =10)

I MULTIPLE CHOICE QUESTIONS:

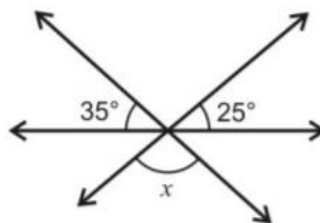
1. What is the area of Parallelogram PQRS shown in the figure below?



- a)  $35 \text{ m}^2$       b)  $35 \text{ cm}^2$       c)  $42 \text{ m}^2$       d)  $42 \text{ cm}^2$
2. The area of a triangle is  $54 \text{ cm}^2$ . Which of the following is the length of the base of the triangle if its height is 18 cm?
- a) 3 cm      b) 6cm      c) 9 cm      d) 12 cm
3. The measures of two adjacent angles of a quadrilateral are  $115^\circ$  and  $65^\circ$  respectively. The other two angles are equal in measure. What is the measure of EACH of the other two angles of the quadrilateral?
- a)  $130^\circ$       b)  $90^\circ$       c)  $180^\circ$       d)  $210^\circ$
4. Which of these becomes a perfect cube when multiplied by 25?

- a)  $6^2 \times 5^4$  b)  $3^3 \times 5^3$  c)  $4^3 \times 5^2$  d)  $6^3 \times 5$

5. What is the measure of angle x in the figure below?



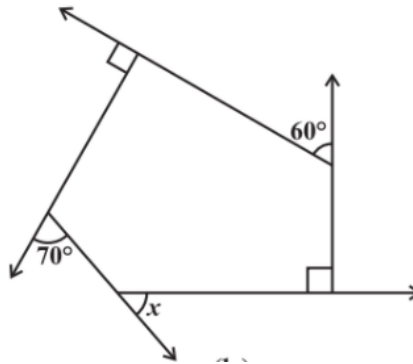
- a)  $120^\circ$       b)  $60^\circ$       c)  $125^\circ$       d)  $130^\circ$

II FILL IN THE BLANKS:

6. The value of the expression  $x^3 - 12$  when  $y = -2$  is -----
7. The square root of 2025 is \_\_\_\_\_.
8. A polio virus has a diameter of 0.000000012 m. Express this in the standard form.  
\_\_\_\_\_
9. If 8.5% of  $x$  is 34, then the value of  $x$  is \_\_\_\_\_.
10. The area of the base of a right circular cylinder is 412 sq cm and its height is 12 cm. the volume of the cylinder would be \_\_\_\_\_.

SECTION – B (3 X 2 = 6)

11. Find three rational numbers between  $\frac{-1}{2}$  and  $\frac{-3}{4}$ .
12. Find the value of  $x$



13. Find the value of  $(5x^2 - 125) \div (x - 5)$

SECTION – C (3 X 3 = 9)

14. The area of a square field is 5184 sq m. A rectangular field whose length is twice its breadth has a perimeter equal to the perimeter of the square field. Find the area of the rectangular field.
15. Simplify :  $(\frac{-5}{9} \div \frac{20}{36}) + (\frac{-13}{14} \times \frac{28}{39}) - (\frac{7}{11} \div \frac{21}{44}) \div \frac{-4}{15}$
16. The numerator of a fraction is 7 less than its denominator. If the denominator is increased by 9 and the numerator is increased by 2, the fraction becomes  $\frac{2}{3}$ . Find the original fraction.

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