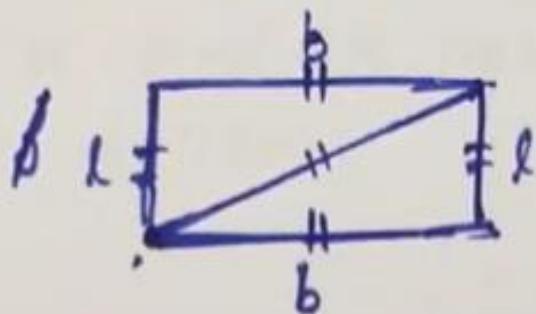


Mensuration

Problems based on Squares

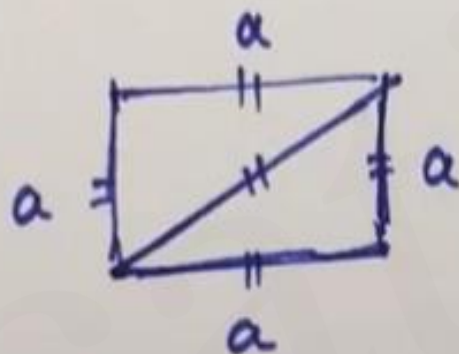
Rectangle

Rectangle



<u>Area</u>	<u>Perimeter</u>	<u>diagonal</u>
$l \times b$	$2(l+b)$	$\sqrt{l^2 + b^2}$

Square



<u>Area</u>	<u>Perimeter</u>	<u>diagonal</u>
$a \times a = a^2$	$a + a + a + a = 4a$	$\sqrt{2} a$

$$b + l + b + l = 2b + 2l$$
$$2(l+b)$$

Pythagoras

$$h^2 = \sqrt{l^2 + b^2}$$
$$\sqrt{a^2 + a^2}$$
$$= \sqrt{2a^2}$$
$$\sqrt{2} a$$

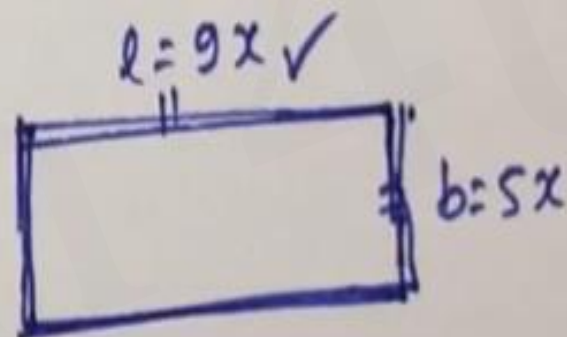
11. The length and breadth of a rectangle are in the ratio 9:5. If the area is 720m square. find its perimeter?

✓ a. 112m b. 115m c. 110m d. 118m

ratio

$$l:b = 9:5 \checkmark$$

$$\left. \begin{array}{l} l = 9x \text{ m} \checkmark \\ b = 5x \text{ m} \checkmark \end{array} \right\}$$



$$\text{Area} = l \times b$$

$$16 \text{ 80 } 720 = 9x \times 5x$$

$$x^2 = 16$$

$$x = 4 \checkmark$$

$$2(l+b)$$

$$2(9x+5x)$$

$$2(14x)$$

$$= 2 \times 14 \times 4$$

$$112 \text{ m} \checkmark$$