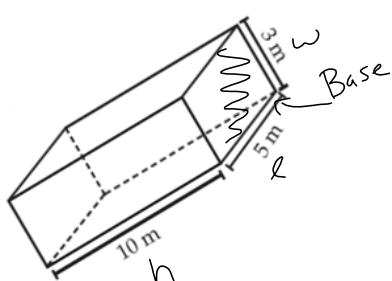


Lateral Area:
area of the
faces.



Lateral Area

$$A_L = P_b \times h$$

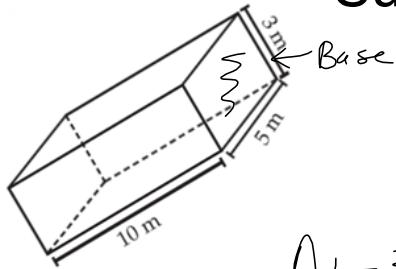
↗ Perimeter of the base ↗ height

Example

$$\begin{aligned} P_b &= 2(3) + 2(5) \\ &= 6 + 10 \\ &= 16 \text{ cm} \end{aligned}$$

$$\begin{aligned} A_L &= P_b \times h \\ &= 16(10) \\ \boxed{A_L} &= 160 \text{ m}^2 \end{aligned}$$

Surface Area → Total Area



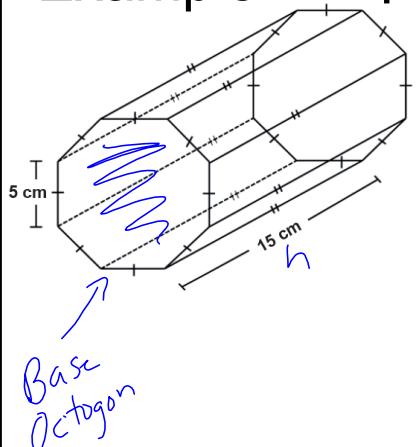
$$A_T = 2A_b + A_L$$

$$A_b = 3(5) \\ = 15 \text{ m}^2$$

$$A_T = 2(15) + 160 \\ = 30 + 160$$

$$\boxed{A_T = 190 \text{ m}^2}$$

Example Find the lateral area of the prism



$$A_L = P_b \times h$$

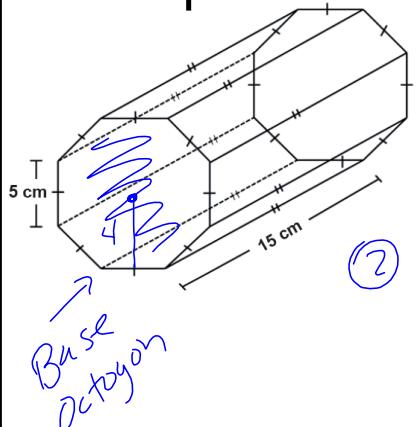
$$P_b = S_n \\ = 5(8) \\ = 40 \text{ cm}$$

$$A_L = 40(15)$$

$$\boxed{A_L = 600 \text{ cm}^2}$$

Example

Find the surface area of the prism



$$\textcircled{1} \quad A_T = 2A_b + A_L$$

$$\begin{aligned} \textcircled{2} \quad A_b &= \frac{\text{sem}}{2} & \textcircled{3} \quad A_T &= 2(80) + 600 \\ &= \frac{5(4)(8)}{2} & &= 160 + 600 \\ &= 160 & &= 760 \text{ cm}^2 \\ &= 80 \text{ cm}^2 & & \end{aligned}$$