

5.3 Surface Area of a Prism

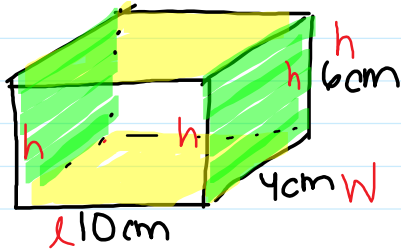
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Surface Area

- the sum of the areas of all the faces of an object

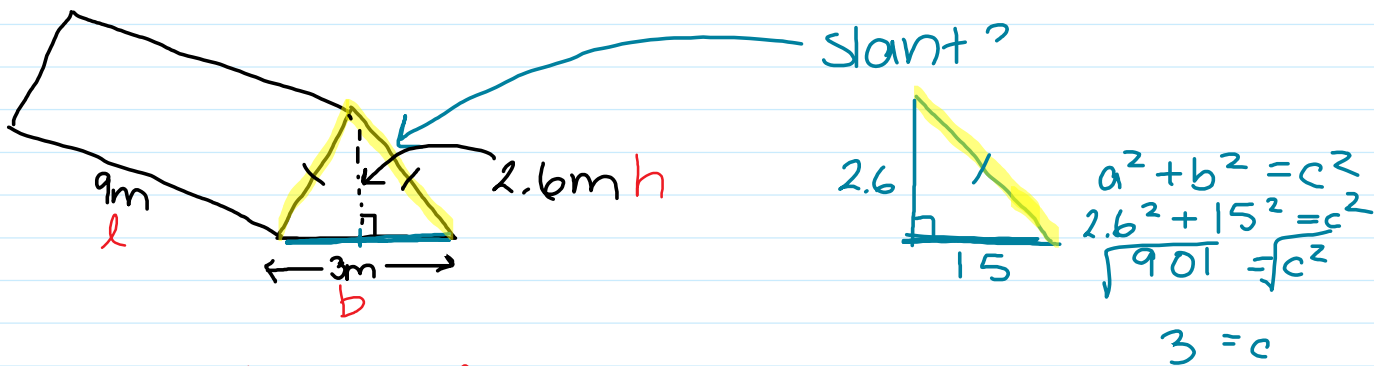
- is measured in square units cm^2 , m^2 , km^2

Ex #1



$$\begin{aligned} SA &= 2lw + 2lh + 2wh \\ &= 2 \times l \times w + 2 \times l \times h + 2 \times w \times h \\ &= 2 \times 10 \times 4 + 2 \times 10 \times 6 + 2 \times 4 \times 6 \\ &= 80 + 120 + 48 \\ &= \boxed{248 \text{ cm}^2} \end{aligned}$$

Ex #2



$$\begin{aligned} SA &= bh + 2ls + lb \\ &= 3 \times 2.6 + 2 \times 9 \times 3 + 9 \times 3 \\ &= 7.8 + 54 + 27 \\ &= \boxed{88.8 \text{ m}^2} \end{aligned}$$

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