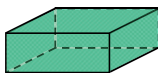


Lesson 10-10

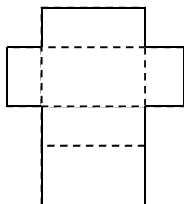
Objective - To find the surface area of prisms.

Sketching the Net of a 3-D Solid

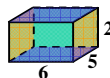
3-D Solid



2-D Net



Separate Surfaces



Top & Bottom

$$2(6 \cdot 5) = 60 \text{ un}^2$$

Left & Right

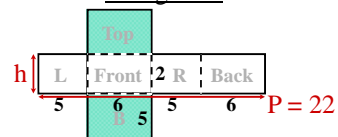
$$2(5 \cdot 2) = 20 \text{ un}^2$$

Front & Back

$$2(6 \cdot 2) = 24 \text{ un}^2$$

$$\text{SA} = 104 \text{ un}^2$$

Using Nets



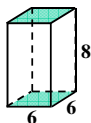
$$\text{SA} = 2B + P \cdot h$$

$$\text{SA} = 2(6 \cdot 5) + (22) \cdot 2$$

$$\text{SA} = 60 + 44$$

$$\text{SA} = 104 \text{ un}^2$$

Find the surface area of this prism.



Top & Bottom

$$2(6 \cdot 6) = 72 \text{ un}^2$$

Left & Right

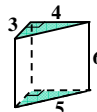
$$2(6 \cdot 8) = 96 \text{ un}^2$$

Front & Back

$$2(6 \cdot 8) = 96 \text{ un}^2$$

$$\text{SA} = 264 \text{ un}^2$$

Find the surface area of the prism below.



Top & Bottom

$$2\left(\frac{1}{2} \cdot 3 \cdot 4\right) = 12 \text{ un}^2$$

Left Face

$$3 \cdot 6 = 18 \text{ un}^2$$

Back Face

$$4 \cdot 6 = 24 \text{ un}^2$$

Front Face

$$5 \cdot 6 = 30 \text{ un}^2$$

$$\text{SA} = 84 \text{ un}^2$$