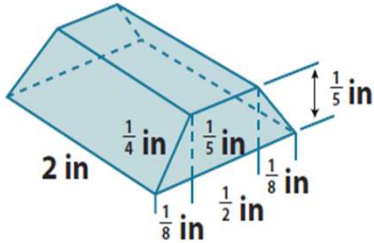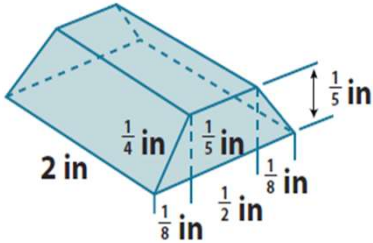# Surface Area Worksheets

1. Find the surface area of the following right prism using the formula $SA = LA + 2B$

Surface Area Worksheets

1. Find the surface area of the following right prism using the formula $SA = LA + 2B$

$$SA = LA + 2B$$

$$LA = P \cdot h$$

$$LA = \left(\frac{1}{8} \text{ in.} + \frac{1}{2} \text{ in.} + \frac{1}{8}\text{in.} + \frac{1}{4} \text{ in.} + \frac{1}{2}\text{in.} + \frac{1}{4} \text{ in.}\right) \cdot 2 \text{ in.}$$

$$LA = \left(1\frac{3}{4} \text{ in.}\right) \cdot 2 \text{ in.}$$

$$LA = 2 \text{ in}^2 + 1\frac{1}{2} \text{ in}^2$$

$$LA = 3\frac{1}{2} \text{ in}^2$$

$$B = A_{rectangle} + 2A_{triangle}$$

$$B = \left(\frac{1}{2} \text{ in.} \cdot \frac{1}{5} \text{ in.}\right) + 2 \cdot \frac{1}{2}\left(\frac{1}{8} \text{ in.} \cdot \frac{1}{5} \text{ in.}\right)$$

$$B = \left(\frac{1}{10} \text{ in}^2\right) + \left(\frac{1}{40} \text{ in}^2\right)$$

$$B = \frac{1}{10} \text{ in}^2 + \frac{1}{40} \text{ in}^2$$

$$B = \frac{4}{40} \text{ in}^2 + \frac{1}{40} \text{ in}^2$$

$$B = \frac{5}{40} \text{ in}^2$$

$$B = \frac{1}{8} \text{ in}^2$$

$$SA = 3\frac{1}{2} \text{ in}^2 + 2\left(\frac{1}{8} \text{ in}^2\right)$$

$$SA = 3\frac{1}{2} \text{ in}^2 + \frac{1}{4} \text{ in}^2$$

$$SA = 3\frac{2}{4} \text{ in}^2 + \frac{1}{4} \text{ in}^2$$

$$SA = 3\frac{3}{4} \text{ in}^2$$

The surface area of the prism is $3\frac{3}{4}$ in².

Go to onlinemathlearning.com for more free math resources