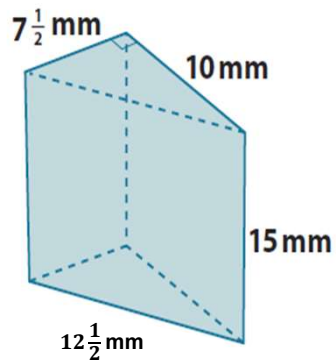


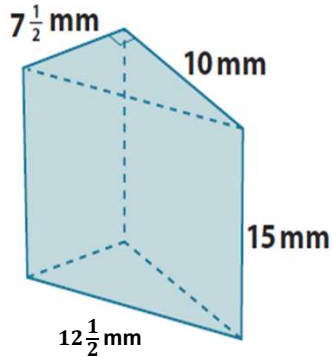
## Surface Area Worksheets

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



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$$SA = LA + 2B$$

$$LA = P \cdot h$$

$$LA$$

$$= \left( 12\frac{1}{2} \text{ mm} + 10 \text{ mm} + 7\frac{1}{2} \text{ mm} \right) \cdot 15 \text{ mm}$$

$$LA = 30 \text{ mm} \cdot 15 \text{ mm}$$

$$LA = 450 \text{ mm}^2$$

$$B = \frac{1}{2}bh$$

$$B = \frac{1}{2} \cdot \left( 7\frac{1}{2} \text{ mm} \right) \cdot (10 \text{ mm})$$

$$B = \frac{1}{2} \cdot (70 + 5) \text{ mm}^2$$

$$B = \frac{1}{2} \cdot 75 \text{ mm}^2$$

$$B = \frac{75}{2} \text{ mm}^2$$

*The surface area of the prism is  $525 \text{ mm}^2$ .*

$$SA = 450 \text{ mm}^2 + 2 \left( \frac{75}{2} \text{ mm}^2 \right)$$

$$SA = 450 \text{ mm}^2 + 75 \text{ mm}^2$$

$$SA = 525 \text{ mm}^2$$