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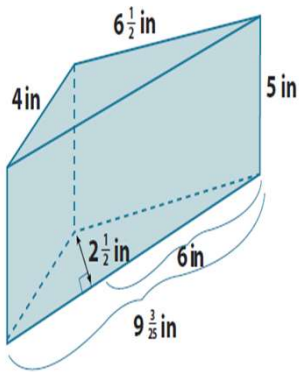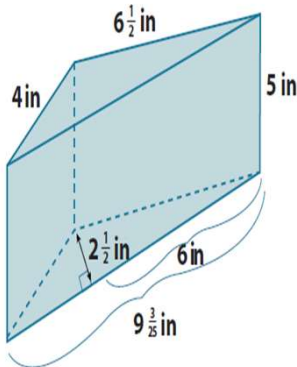
1. Find the surface area of the following right prism using the formula $SA = LA + 2B$

$6\frac{1}{2}$ in

4 in

5 in

$2\frac{1}{2}$ in

6 in

$9\frac{3}{8}$ in

Surface Area Worksheets

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

$$SA = LA + 2B$$

$$LA = P \cdot h$$

$$LA = \left(9\frac{3}{25}\, in. + 6\frac{1}{2}\, in. + 4\, in.\right) \cdot 5\, in$$

$$LA = \left(\frac{228}{25}\, in. + \frac{13}{2}\, in. + 4\, in.\right) \cdot 5\, in$$

$$LA = \left(\frac{456}{50}\, in. + \frac{325}{50}\, in. + \frac{200}{50}\, in.\right) \cdot 5\, in.$$

$$LA = \left(\frac{981}{50}\, in.\right) \cdot 5\, in.$$

$$LA = \frac{49,050}{50}\, in^2$$

$$LA = 98\frac{1}{10}\, in^2$$

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

$$B = \frac{1}{2} \cdot 9\frac{3}{25}\, in. \cdot 2\frac{1}{2}\, in.$$

$$B = \frac{1}{2} \cdot \frac{228}{25}\, in. \cdot \frac{5}{2}\, in.$$

$$B = \frac{1,140}{100}\, in^2$$

$$B = 11\frac{2}{5}\, in^2$$

$$2B = 2 \cdot 11\frac{2}{5}\, in^2$$

$$2B = 22\frac{4}{5}\, in^2$$

$$SA = LA + 2B$$

$$SA = 98\frac{1}{10}\, in^2 + 22\frac{4}{5}\, in^2$$

$$SA = 120\frac{9}{10}\, in^2$$

The surface area of the prism is $120\frac{9}{10}\, in^2$.

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