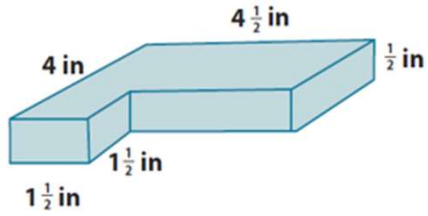
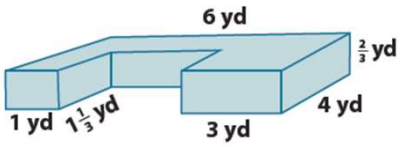
Volume of Prisms Worksheets

1. Calculate the volume of each solid using the formula $V = Bh$ (all angles are 90 degrees





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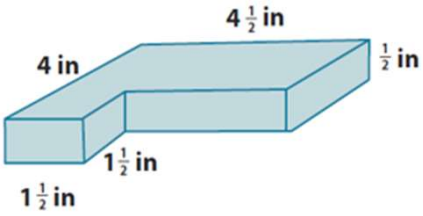


$$V = Bh$$

$$V = 13\frac{1}{2}\ \text{in}^2 \cdot \frac{1}{2}\ \text{in.}$$

$$V = \frac{13}{2}\ \text{in}^3 + \frac{1}{4}\ \text{in}^3$$

$$V = 6\ \text{in}^3 + \frac{1}{2}\ \text{in}^3 + \frac{1}{4}\ \text{in}^3$$

$$V = 6\frac{3}{4}\ \text{in}^3$$

$$V = Bh$$

$$B = A_{\text{rectangle}} + A_{\text{square}}$$

$$B = lw + s^2$$

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

$$B = \left(10\ \text{in}^2 + 1\frac{1}{4}\ \text{in}^2\right) + \left(1\frac{1}{2}\ \text{in.} \cdot 1\frac{1}{2}\ \text{in.}\right)$$

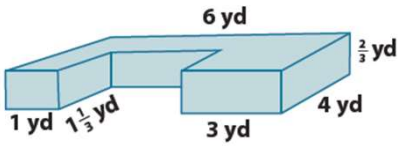
$$B = 11\frac{1}{4}\ \text{in}^2 + \left(1\frac{1}{2}\ \text{in}^2 + \frac{3}{4}\ \text{in}^2\right)$$

$$B = 11\frac{1}{4}\ \text{in}^2 + \frac{3}{4}\ \text{in}^2 + 1\frac{1}{2}\ \text{in}^2$$

$$B = 12\ \text{in}^2 + 1\frac{1}{2}\ \text{in}^2$$

$$B = 13\frac{1}{2}\ \text{in}^2$$

The volume of the solid is $6\frac{3}{4}\ \text{in}^3$.



$$V = Bh$$

$$V = \left(21\frac{1}{3}\ \text{yd}^2\right) \cdot \frac{2}{3}\ \text{yd.}$$

$$V = 14\ \text{yd}^3 + \left(\frac{1}{3}\ \text{yd}^2 \cdot \frac{2}{3}\ \text{yd.}\right)$$

$$V = 14\ \text{yd}^3 + \frac{2}{9}\ \text{yd}^3$$

$$V = 14\frac{2}{9}\ \text{yd}^3$$

The volume of the solid is $14\frac{2}{9}\ \text{yd}^3$.

$$V = Bh$$

$$B = (A_{\text{lg rectangle}}) - (A_{\text{sm rectangle}})$$

$$B = (lw)_1 - (lw)_2$$

$$B = (6\ \text{yd.} \cdot 4\ \text{yd.}) - \left(1\frac{1}{3}\ \text{yd.} \cdot 2\ \text{yd.}\right)$$

$$B = 24\ \text{yd}^2 - \left(2\ \text{yd}^2 + \frac{2}{3}\ \text{yd}^2\right)$$

$$B = 24\ \text{yd}^2 - 2\ \text{yd}^2 - \frac{2}{3}\ \text{yd}^2$$

$$B = 22\ \text{yd}^2 - \frac{2}{3}\ \text{yd}^2$$

$$B = 21\frac{1}{3}\ \text{yd}^2$$