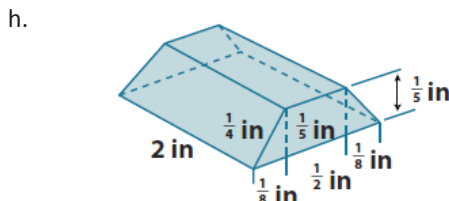
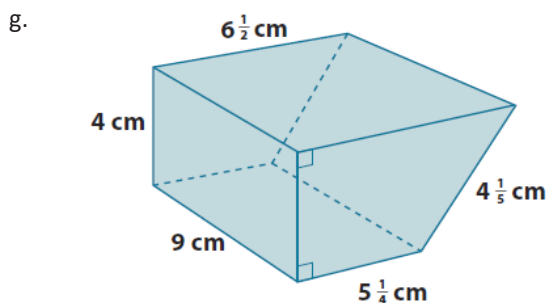
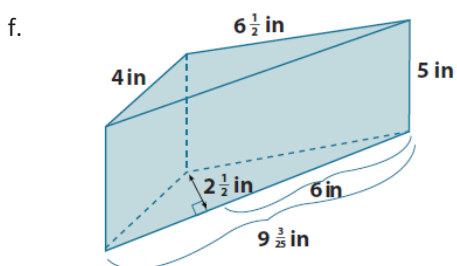
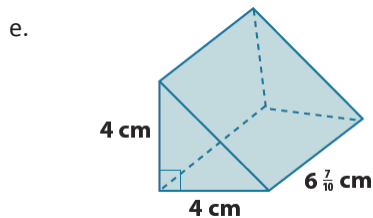
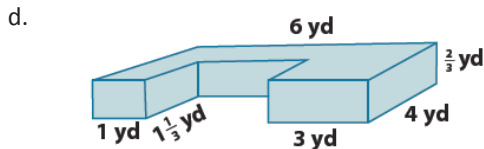
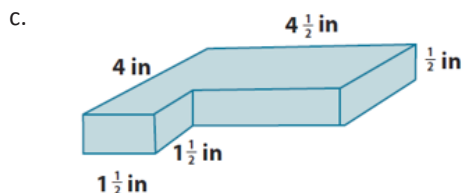
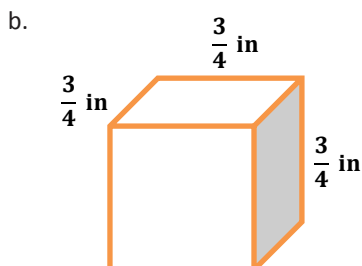
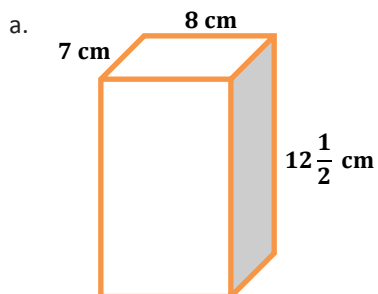


# Problem Set

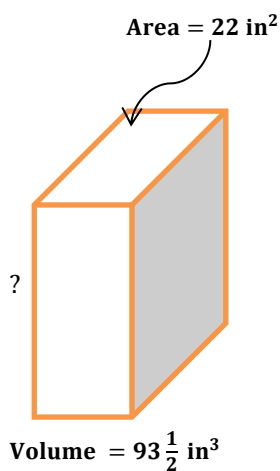
1. Calculate the volume of each solid using the formula  $V = Bh$  (all angles are 90 degrees).



2. Let  $l$  represent the length,  $w$  the width, and  $h$  the height of a right rectangular prism. Find the volume of the prism when
- $l = 3$  cm,  $w = 2\frac{1}{2}$  cm, and  $h = 7$  cm.
  - $l = \frac{1}{4}$  cm,  $w = 4$  cm, and  $h = 1\frac{1}{2}$  cm.

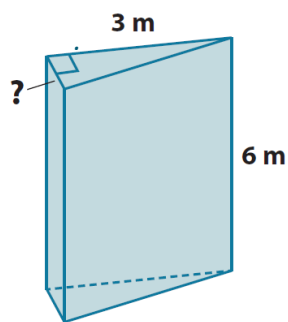
3. Find the length of the edge indicated in each diagram.

a.



What are possible dimensions of the base?

b.



Volume =  $4\frac{1}{2} \text{ m}^3$

4. The volume of a cube is  $3\frac{3}{8} \text{ in}^3$ . Find the length of each edge of the cube.
5. Given a right rectangular prism with a volume of  $7\frac{1}{2} \text{ ft}^3$ , a length of 5 ft, and a width of 2 ft, find the height of the prism.