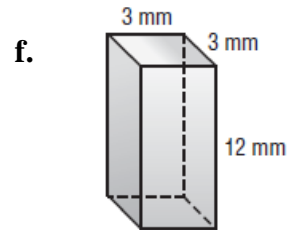
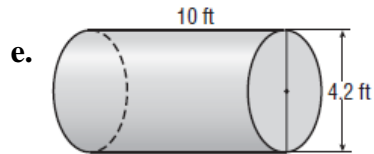
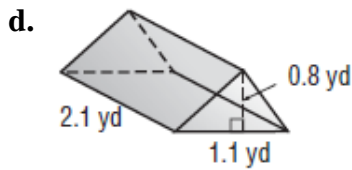
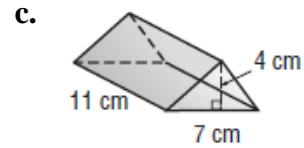
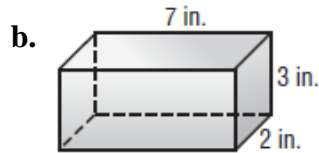
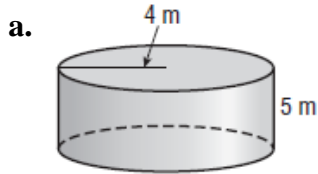


7-5 Skills Practice: Volume of Prisms & Cylinders*Show work for all problems!*

1. Identify each solid. Name the number and shapes of the faces. Then name the number of edges and vertices.



g. rectangular prism: length, 10 m; width, 5 m; height, 5 m

h. triangular prism: base of triangle, 8 in; altitude, 8 in; height of prism, 6 in

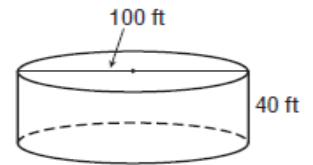
i. cylinder: radius, 7 ft; height, 4 ft

j. cylinder: diameter, 6.4 cm; height, 4.9 cm

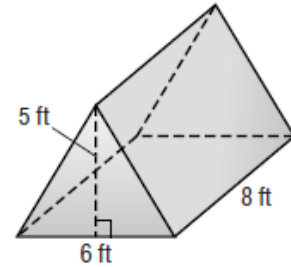
2. Find the base of the triangle of a triangular prism with a height of 8 yards, altitude of 4 yards, and a volume of 16 cubic yards.

3. Find the height of a cylinder with a diameter of 5 meters, and a volume of 49.1 cubic meters.

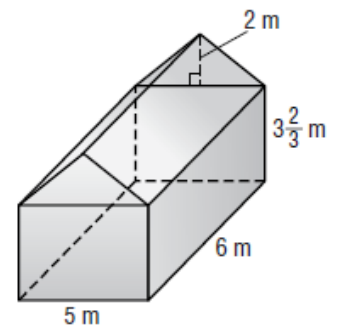
4. About 7.5 gallons of water occupy one cubic foot. About how many gallons of water are in a cylindrical water tank with dimensions shown in the figure?



5. A tent used for camping is shown below. Find the volume of the tent.



6. The dimensions of a new tree house are shown below. How many cubic feet of space will the tree house contain?



7. The figure below shows a piece of foam packaging. Find the volume of the foam.

