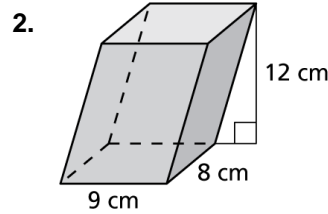
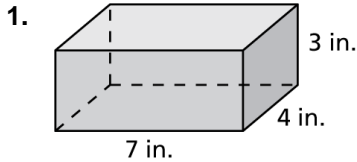


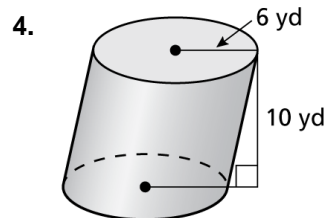
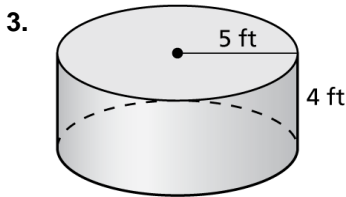
# 11.5

## Practice A

In Exercises 1 and 2, find the volume of the prism.



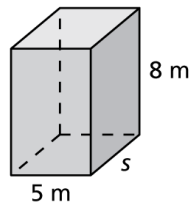
In Exercises 3 and 4, find the volume of the cylinder.



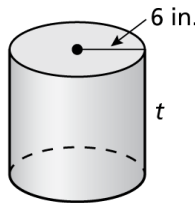
5. A cylindrical container with a radius of 12 centimeters is filled to a height of 6 centimeters with coconut oil. The density of coconut oil is 0.92 gram per cubic centimeter. What is the mass of the coconut oil to the nearest gram?

In Exercises 6 and 7, find the missing dimension.

6. Volume =  $240 \text{ m}^3$



7. Volume =  $1244 \text{ in.}^3$

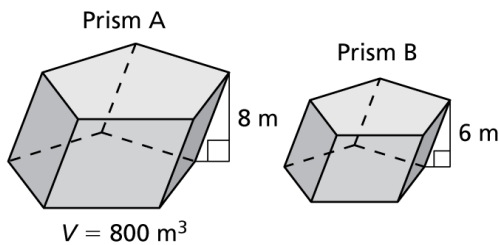


In Exercises 8 and 9, find the area of the base of the rectangular prism with the given volume and height. Then give a possible length and width.

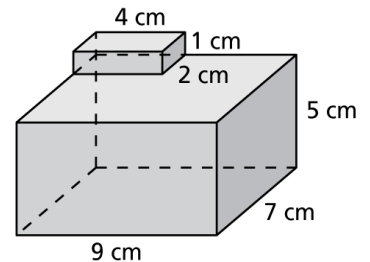
8.  $V = 96 \text{ ft}^3$ ,  $h = 8 \text{ ft}$

9.  $V = 144 \text{ cm}^3$ ,  $h = 6 \text{ cm}$

10. The prisms are similar. Find the volume of Prism B.



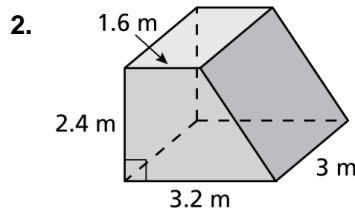
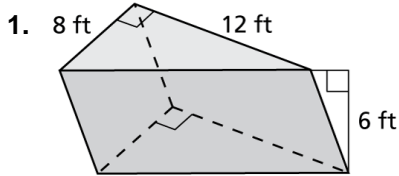
11. Find the volume of the composite solid.



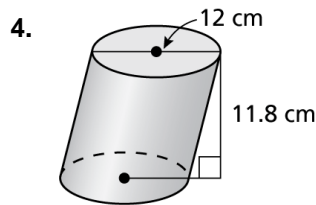
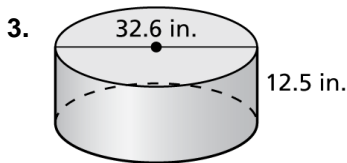
12. A cylindrical swimming pool is approximately 12 feet wide and 4 feet deep. About how many gallons of water does the swimming pool contain? Remember that 1 cubic foot is approximately 7.48 gallons.

# 11.5 Practice B

In Exercises 1 and 2, find the volume of the prism.

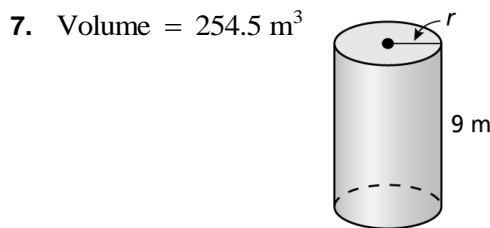
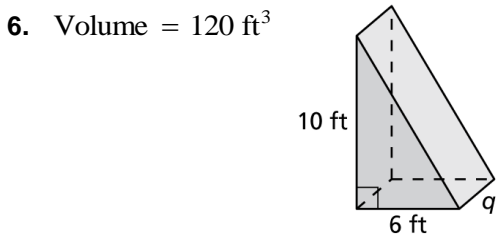


In Exercises 3 and 4, find the volume of the cylinder.



5. A cylindrical container with a radius of 8 centimeters is filled to a height of 10 centimeters with sulfuric acid. The density of sulfuric acid is 1.84 grams per cubic centimeter. What is the mass of the sulfuric acid to the nearest gram?

In Exercises 6 and 7, find the missing dimension.

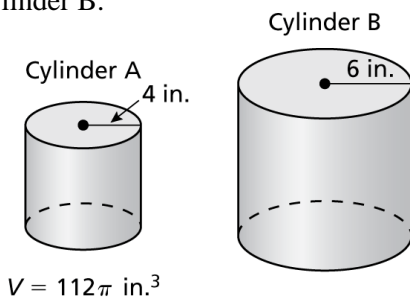


In Exercises 8 and 9, find the area of the base of the rectangular prism with the given volume and height. Then give a possible length and width.

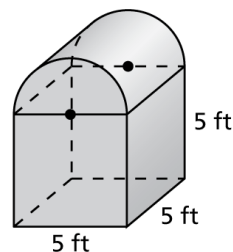
8.  $V = 216 \text{ yd}^3, h = 12 \text{ yd}$

9.  $V = 448 \text{ in.}^3, h = 14 \text{ in.}$

10. The cylinders are similar. Find the volume of Cylinder B.



11. Find the volume of the composite solid.



12. An aquarium shaped like a rectangular prism has a length of 24 inches, a width of 12 inches, and a height of 18 inches. You fill the aquarium half full with water. When you submerge a rock in the aquarium, the water level rises 0.5 inch. Find the volume of the rock.