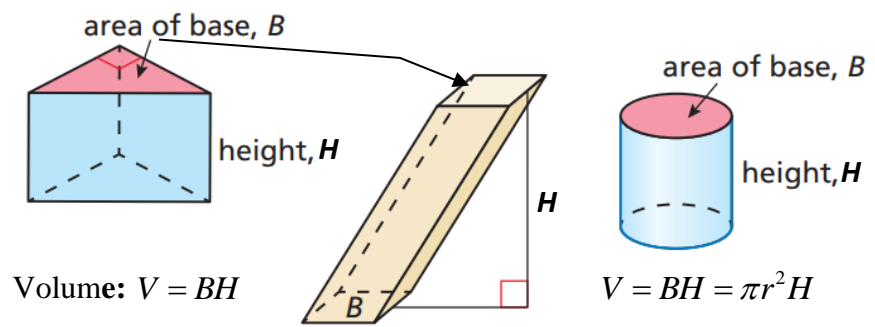


# Core Concept

A **prism** is a solid that has two faces that are parallel and congruent. The lateral faces of a prism are rectangles or parallelograms.

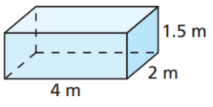
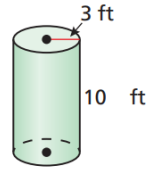
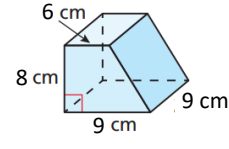
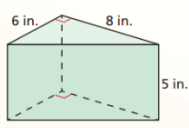
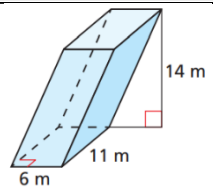
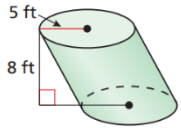
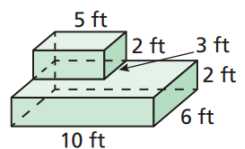
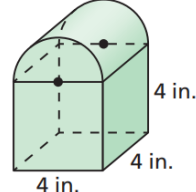
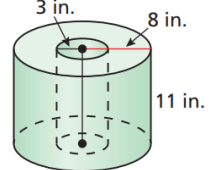
A **cylinder** is a solid that has two faces that are parallel and are congruent circles.



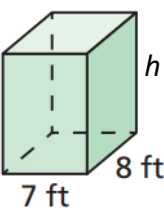
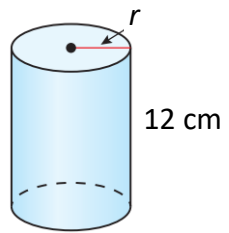
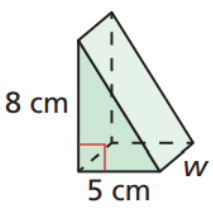
For 1-4: State the name of each solid and find the volume.

<p>1)</p>	<p>2)</p>	<p>3)</p>
<p>4)</p>	<p>6) Find the missing dimension. Write and solve an equation. Show work.</p> <p>Volume = <math>2700 \text{ yd}^3</math></p>	
<p>5) Find the missing dimension. Write and solve an equation. Show work. Volume = <math>486\pi \text{ ft}^3</math></p>	<p>7) Find the volume.</p>	

11-#7 HW: Find the volume. Name the figure when indicated. and find the volume.

<p>1)</p> 	<p>2)</p> 	<p>3)</p> 
<p>Name: _____ prism Volume:</p>	<p>Name: _____ Volume:</p>	<p>Name: _____ prism Volume:</p>
<p>4)</p> 	<p>5)</p> 	<p>6)</p> 
<p>Name: _____ prism Volume:</p>	<p>Volume:</p>	<p>Volume:</p>
<p>7)</p> 	<p>8)</p> 	<p>9)</p> 
<p>Volume:</p>	<p>Volume:</p>	<p>Volume:</p>

Find the missing dimension by writing and solving an equation. Show steps in work.

<p>10) Find <math>h</math>. Volume = <math>644 \text{ ft}^3</math></p> 	<p>11) Find <math>r</math>. Volume = <math>192\pi \text{ cm}^3</math></p> 	<p>12) Find <math>w</math>. Volume = <math>108 \text{ cm}^3</math></p> 
<p><math>h =</math></p>	<p><math>r =</math></p>	<p><math>w =</math></p>

13) Which of the figures are triangular prisms? \_\_\_\_\_

14) Which of the figures are rectangular prisms? \_\_\_\_\_

15) Which of the figures are trapezoidal prisms? \_\_\_\_\_

