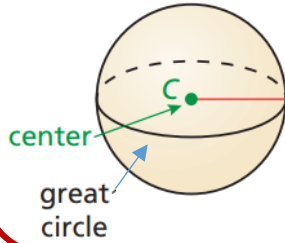
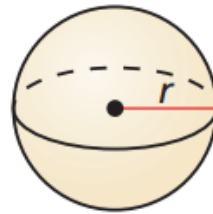


Core Concept

A sphere is the set of all points in space equidistant from a given point called the center.

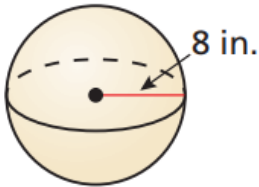
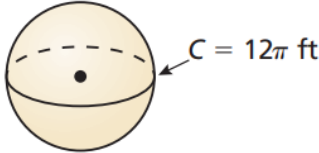
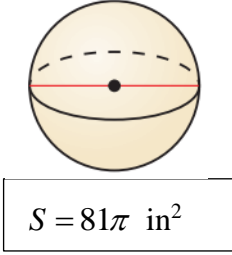
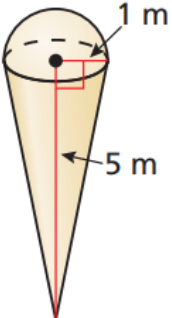
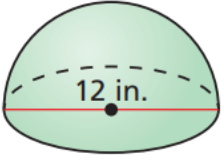


A *great circle* of a sphere separates the sphere into two congruent halves called *hemispheres*.



Volume: $V = \frac{4}{3}\pi r^3$

Surface Area: $S = 4\pi r^2$

<p>1) Find the surface area and volume:</p> 	<p>2) Find the surface area and volume:</p> 
<p>3) Find the diameter of the sphere:</p> 	<p>4) Find the volume:</p> 
<p>5) Find the surface area of the hemisphere:</p> 	<p>6) Find the volume: Challenge: Find the surface area.</p> 