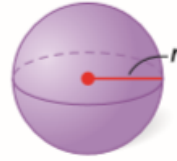


Surface Area of a Sphere

The surface area of a sphere with radius r is $S = 4\pi r^2$.



For each problem:

- Find the surface area of the sphere or hemisphere or composite figure.

<p>1.</p> <p>A blue sphere with a red line from the center to the surface labeled '50 cm'.</p>	<p>2.</p> <p>A gray sphere with a red line from the center to the surface labeled '8 ft'.</p>	<p>3.</p> <p>A gray hemisphere with a red line across the base labeled '8 yd'.</p>
<p>4.</p> <p>the surface area of a sphere with a great circle that has an area of $49\pi \text{ mi}^2$</p> <p>A green sphere with a red line from the center to the surface labeled '$A = 49\pi \text{ mi}^2$'.</p>	<p>5.</p> <p>A gray cylinder with a hemisphere on top. The cylinder's length is labeled '7 mi' and the hemisphere's radius is labeled '3 mi'.</p>	<p>6.</p> <p>A purple rectangular prism with a hemisphere on top. The prism's dimensions are labeled '4 cm' (height), '10 cm' (length), and '5 cm' (width). The hemisphere's radius is labeled '3 cm'.</p>