



Name

Score

Solve and show all steps.

<p>A spherical basketball has a radius of 12 cm. What is the surface area of the basketball?</p>	<p>Show all steps here</p>
<p>A decorative globe has a diameter of 30 inches. What is the surface area of the globe?</p>	<p>Show all steps here</p>
<p>The circumference of a great circle of a sphere is 18π meters. Find the surface area of the sphere.</p>	<p>Show all steps here</p>
<p>If the surface area of a sphere is 196π square units, what is the radius of the sphere?</p>	<p>Show all steps here</p>
<p>A spherical balloon is being inflated. Its radius increases from 5 cm to 8 cm. By how much does its surface area increase?</p>	<p>Show all steps here</p>



Solve and show all steps.

The surface area of the basketball is approximately 1808.64 cm^2 .

The surface area of the globe is approximately 2826.00 inches^2 .

The surface area of the sphere is approximately 1017.36 m^2 .

The radius of the sphere is 7 units.

The surface area increases by approximately 489.84 cm^2 .