

# Surface Area of a Sphere

The area of the portion of the plane or shape can be defined as the amount of stuff required to cover it.

Let radius of sphere =  $r$ . Then

1. Surface area of a sphere =  $4\pi r^2$
2. Curved surface area of a hemisphere =  $2\pi r^2$
3. Total surface area of a hemisphere =  $3\pi r^2$

Name of the Solid	Curved Surface Area	Total Surface Area	Volume
Cuboid	$2h(l + b)$	$2(lb + bh + hl)$	$lbh$
Cube	$4a^2$	$6a^2$	$a^3$
Right Circular Cylinder	$2\pi rh$	$2\pi r(r + h)$	$\pi r^2 h$
Right Circular Cone	$\pi rl$	$2\pi r(r + l)$	$\frac{1}{3}\pi r^2 h$
Sphere	–	$4\pi r^2$	$\frac{4}{3}\pi r^3$
Hemisphere	$2\pi r^2$	$3\pi r^2$	$\frac{2}{3}\pi r^3$
Frustum of a Cone	$\pi(r_1 + r_2)l$ where $l = \sqrt{h^2 + (r_1 - r_2)^2}$	$\pi(r_1 + r_2)l$ + $\pi r_1^2 + \pi r_2^2$	$\frac{1}{3}\pi h(r_1^2 + r_2^2 + r_1 r_2)$

- sphere surface area

- surface area sphere
- volume of a hemisphere
- sa of a sphere
- surface area of a hemisphere
- area sphere
- surface area of hemisphere
- area of a hemisphere
- area of a hemisphere
- area of hemisphere
- what is the surface area of a sphere
- hemisphere surface area
- surface are of a sphere
- find the surface area of a sphere
- surface area of a sphere with diameter
- surface area of a sphere diameter
- spherical surface area
- surface area of a shpere
- surface area for sphere
- volume hemisphere
- volume of a semisphere
- surface area for a sphere
- volume of a semisphere
- volume of a semisphere
- area of a dome
- hemisphere area

- surface area of a ball
- surface area of a dome
- surface area of a hemisphere formula
- find the surface area of the sphere
- surface area of half a sphere
- how do you find the surface area of a sphere
- surface area hemisphere
- surface area of shere
- the surface area of a sphere
- area of sphere with diameter
- find surface area of sphere
- total surface area of a sphere
- hemisphere surface area formula
- surface areaof a sphere
- surface area of a spere
- surface area of a spehere
- equation of a hemisphere
- how to find the surface area of a hemisphere
- hemisphere surface area formula
- surface area of the sphere
- surface area of a sphere\
- area of a half sphere
- area of sphere diameter
- surface area of sphere diameter
- volume for hemisphere

- surface area of hemisphere formula
- surface area of a phere
- surface area of a sphere
- surface area of a phere
- surface area of sphere with diameter
- how to find volume of a hemisphere
- surface area of shpere
- hemispherical dome surface area
- surface area of a shphere
- formula of a hemisphere
- surface area and volume of solids
- area of a spherical shell
- how to find surface area of a hemisphere
- surface area of a spher
- area of hemisphere formula
- what is the surface area of the sphere
- volume for a hemisphere
- area of spehere
- hemisphere formula volume
- hemispherical area formula
- surace area of a sphere
- volume of hemispherical
- hemisphere area formula
- hemisphere and sphere
- surface area of a sphere example

- surface area a sphere
- surface area od sphere
- surface area of asphere
- area of a sphere diameter
- surface area spheres
- surface area of a sphere examples
- area of a sphere diameter
- volume of a hemishpere
- hemispherical dome volume
- surface area of half sphere
- area of a sphere with diameter
- surface area sphere equation
- area of half sphere
- find surface area of a sphere
- volume of a hemispherical bowl
- area hemisphere
- surface area for a hemisphere
- surface area of hemispherical dome
- area of spherical shell
- what is the surface area of a hemisphere
- volume of sphere and hemisphere
- formula for surface area of a hemisphere
- surface area sphere diameter
- finding surface area of a sphere
- surface area of ball

- surface area of a sphere
- surface area of ball
- area of a hemisphere formula
- hemisphere formula surface area
- surface area of a sphere
- surface area of a sphere in diameter
- a hemispherical tank with a radius of 10m
- volume of the hemisphere
- find the surface area of the sphere.
- surface area of sphere
- surface area of a sphere
- surface area of sphere
- surface area of dome
- finding surface area of sphere
- total area of sphere
- surface area of sphere
- the volume of a hemisphere
- total area of sphere
- an inverted hemispherical bowl of radius  $r$
- surface area of spherical
- surface area of sphere
- find the volume of a sphere that has a surface area of 16 sq. in.
- what is the volume of a hemisphere
- a hemispherical surface with radius  $r$

- surface area of sphere
- surface area sphere
- the formula for the surface area of a sphere is  $a = 4\pi r^2$