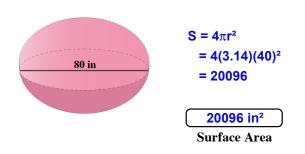
Volume and Surface Area of Simple 3D Shapes Cylinders, cones, and spheres Math Worksheet 52

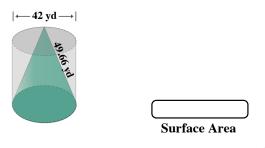


## Answer the following. Show your solutions.

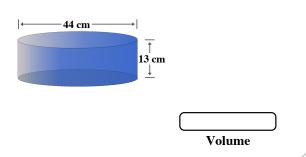
Solve for the surface area of the sphere below if its diameter measures 80 inches. Use 3.14 for  $\pi$ .



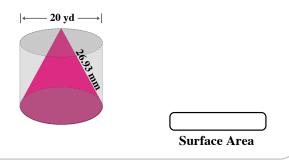
A right circular cylinder and a cone have an equal height and diameter as shown below. Find the surface area of the cone. Use 3.14 for  $\pi$ .



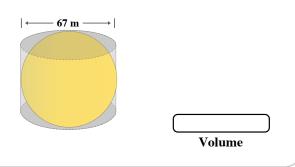
What is the volume of the cylinder below? Dimensions are in centimeters. Use 3.14 for  $\pi$ .



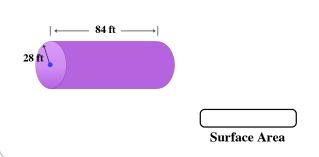
What is the surface area of the cone inside the cylinder if their heights and diameters are equal? Use 3.14 for  $\pi$ .



What is the volume of the sphere below if it fits just exactly in the cylinder? Use 3.14 for  $\pi$ .



Find the surface area of this right rectangular cylinder below. Use 3.14 for  $\pi$ .

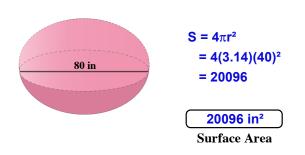


Volume and Surface Area of Simple 3D Shapes Cylinders, cones, and spheres Math Worksheet 52

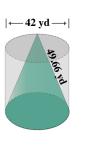


## Answer the following. Show your solutions.

Solve for the surface area of the sphere below if its diameter measures 80 inches. Use 3.14 for  $\pi$ .

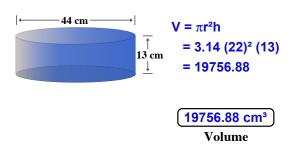


A right circular cylinder and a cone have an equal height and diameter as shown below. Find the surface area of the cone. Use 3.14 for  $\pi$ .

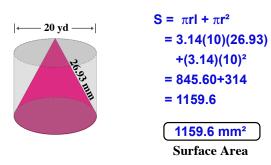


 $S = \pi rI + \pi r^{2}$  = 3.14 (21)(49.66)  $+(3.14)(21)^{2}$  = 3274.58 + 1384.74 = 4659.32  $4659.32 \text{ yd}^{2}$ Surface Area

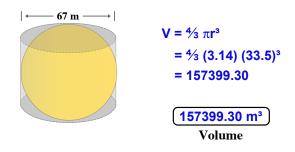
What is the volume of the cylinder below? Dimensions are in centimeters. Use 3.14 for  $\pi$ .



What is the surface area of the cone inside the cylinder if their heights and diameters are equal? Use 3.14 for  $\pi$ .



What is the volume of the sphere below if it fits just exactly in the cylinder? Use 3.14 for  $\pi$ .



Find the surface area of this right rectangular cylinder below. Use 3.14 for  $\pi$ .

