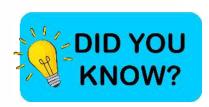
Surface Area-Cylinder

Concept

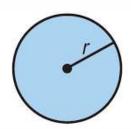
Before you start you must know how to find circumference and area of a circle.



radius r

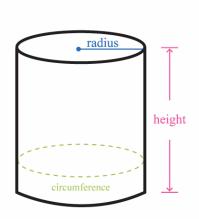
$$C = 2\pi r$$

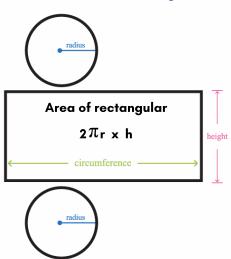
$$C = 2\pi r$$
$$A = \pi r^2$$





The surface area of a cylinder is the total area of its surface. A cylinder has two circles and a "Wrapper" going around the out side. see below diagram



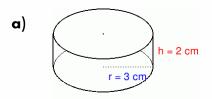


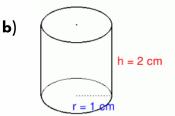
Surface Area = $2\pi r^2 + 2\pi rh$

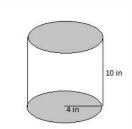
 $SA = 2\pi (radius)^2 + (circumference) (height)$

Assignment

- 1. The diameter of the base of a cylinder is 12 cm and the height is 8 cm. Find the surface area of the solid cylinder.
- 2. The cost of painting a cylindrical container is \$0.04 per cm2. Find the cost of painting 20 containers of radius, 50 cm, and height, 80 cm.
- 3. Find the surface area of each cylinder given below.







c)