NAME _____ DATE _____ PERIOD _____

# Lesson 5 Reteach

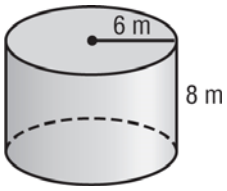
## *Surface Area of Cylinders*

The surface area *S.A.* of a cylinder with height *h* and radius *r* is the sum of the area of the curved surface and the area of the circular bases.

$S.A. = 2\pi rh + 2\pi r^2$

### Example

**Determine the surface area of the cylinder. Round to the nearest tenth.**



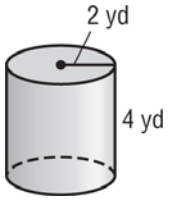

| | |
|---|---|
| $S.A. = 2\pi rh + 2\pi r^2$ | Surface area of a cylinder |
| $S.A. = 2\pi(6)(8) + 2\pi(6)^2$ | Replace *r* with 6 and *h* with 8. |
| $S.A. \approx 527.7875$ | Simplify. |

The surface area of the cylinder is about 527.8 square meters.

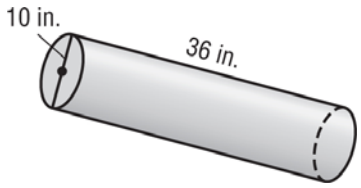
### Exercises

**Determine the total surface area of each cylinder. Round to the nearest tenth.**

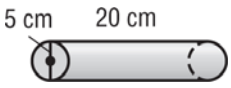
**1.**




**2.**




**3.**




**4.**