REVIEW: Surface Areas of Cylinders


## Skill Example

1. 


$S=2 \pi \cdot 3^{2}+2 \pi \cdot 3 \cdot 2$
$=18 \pi+12 \pi$
$=30 \pi \mathrm{ft}^{2}$

Name $\qquad$
Visual Model
Net for a
Circular Cylinder


## Application Example

2. Find the surface area of the soup can.

$$
\begin{aligned}
S & =2 \pi \cdot 1.5^{2}+2 \pi \cdot 1.5 \cdot 5 \\
& =4.5 \pi+15 \pi \\
& =19.5 \pi \mathrm{in.}^{2}
\end{aligned}
$$


$\because$ The area is $19.5 \pi$ square inches.

## PRACTICE maKes PURR-FECT ${ }^{\text {m }}$

Check your answers at BigIdeasMath.com.
Find the surface area of the circular cylinder.
3. Circular Cylinder

$S=\underline{28 \pi \mathrm{~mm}^{2}}$
6. Circular Cylinder

$S=\underline{320 \pi \mathrm{ft}^{2}}$
4. Circular Cylinder

$S=\underline{156 \pi \mathrm{ft}^{2}}$
7. Circular Cylinder

$S=\underline{104 \pi i n .{ }^{2}}$
5. Circular Cylinder


$$
S=\underline{90 \pi \mathrm{~cm}^{2}}
$$

8. Circular Cylinder


$$
S=\underline{126 \pi \mathrm{~m}^{2}}
$$

9. OIL TANKER TRUCK The truck's tank is a stainless steel cylinder. How many square feet of stainless steel are needed to make the tank? $\qquad$
10. OIL TANKER TRUCK What percent of the stainless steel in the tank is used to make the two ends? $\qquad$ about 7.4\%

