



SOLUTION:

$$\begin{aligned} L &= 2\pi rh \\ &= 2\pi(9)(20) \\ &= 360\pi \\ &\approx 1131.0 \end{aligned}$$

$$\begin{aligned} S &= 2\pi rh + 2B \\ &= 2\pi(9)(20) + 2\pi(9)^2 \\ &= 360\pi + 162\pi \\ &= 522\pi \\ &\approx 1639.9 \end{aligned}$$

ANSWER:

$$1131.0 \text{ in}^2; 1639.9 \text{ in}^2$$

11. **COLLECTIONS** Soledad collects unique salt-and-pepper shakers. She inherited a pair of tetrahedral shakers from her mother.

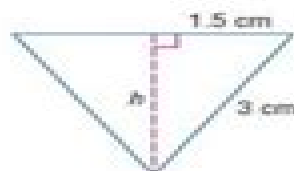
- Each edge of a shaker measures 3 centimeters. Make a sketch of one shaker.
- Find the total surface area of one shaker.

SOLUTION:

a.



- Each tetrahedral shaker is composed of 4 equilateral triangles. Rather than use the formula for the surface area of a pyramid $S = \frac{1}{2}P\ell + B$, it is easier for this figure to find the surface area by multiplying the area of one of the equilateral triangles by 4. Since each triangle is equilateral, the height will bisect the base. Use the Pythagorean Theorem to find the height h of the triangle.



Mid Chapter 12 Test Answers

Thomas Richards



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