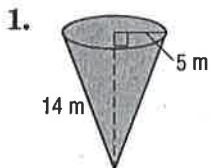


12-6

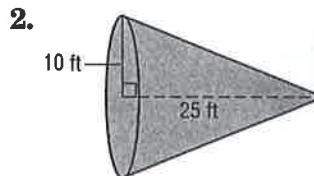
# Skills Practice

## Surface Areas of Cones

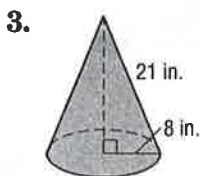
Find the surface area of each cone. Round to the nearest tenth if necessary.



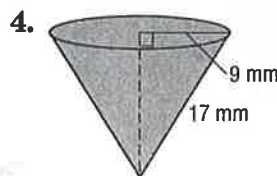
$298.5 \text{ m}^2$



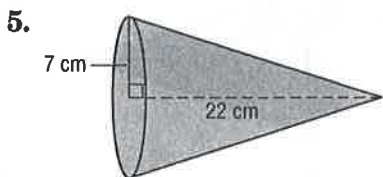
$1160.1 \text{ ft}^2$



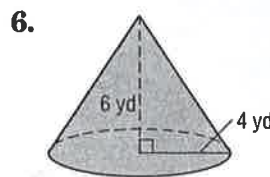
$728.8 \text{ in}^2$



$735.1 \text{ mm}^2$



$661.6 \text{ cm}^2$



$140.9 \text{ yd}^2$

7. Find the surface area of a cone if the height is 12 inches and the slant height is 15 inches.

$678.6 \text{ in}^2$

8. Find the surface area of a cone if the height is 9 centimeters and the slant height is 12 centimeters.

$497.1 \text{ cm}^2$

9. Find the surface area of a cone if the height is 10 meters and the slant height is 14 meters.

$732.5 \text{ m}^2$

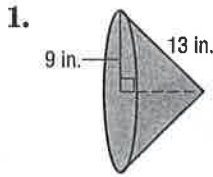
10. Find the surface area of a cone if the height is 5 feet and the slant height is 7 feet.

$183.1 \text{ ft}^2$

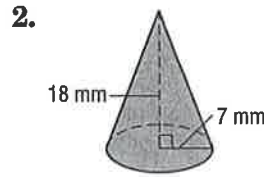
# 12-6 Practice

## Surface Areas of Cones

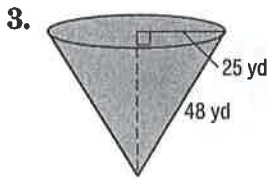
Find the surface area of each cone. Round to the nearest tenth if necessary.



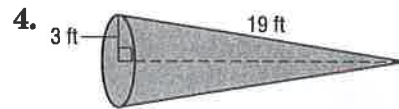
$622.0 \text{ in}^2$



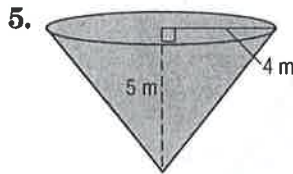
$578.7 \text{ mm}^2$



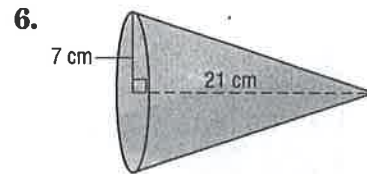
$5733.4 \text{ yd}^2$



$207.3 \text{ ft}^2$



$130.7 \text{ m}^2$



$640.7 \text{ cm}^2$

7. Find the surface area of a cone if the height is 8 feet and the slant height is 10 feet.

$301.6 \text{ ft}^2$

8. Find the surface area of a cone if the height is 14 centimeters and the slant height is 16.4 centimeters.

$669.3 \text{ cm}^2$

9. Find the surface area of a cone if the height is 12 inches and the diameter is 27 inches.

$1338.6 \text{ in}^2$

10. **HATS** Cuong bought a conical hat on a recent trip to central Vietnam. The basic frame of the hat is 16 hoops of bamboo that gradually diminish in size. The hat is covered in palm leaves. If the hat has a diameter of 50 centimeters and a slant height of 32 centimeter what is the lateral area of the conical hat?

about  $2513.3 \text{ cm}^2$