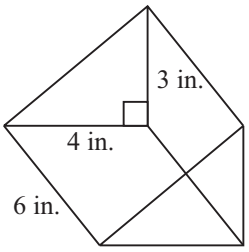
NAME_____

Module 13 Perimeter, Area, and Volume
Lesson 4 Surface Area: Prisms, Cylinders, and Spheres

Additional Practice 13.4

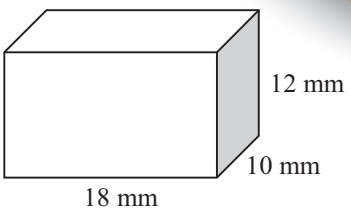
Find the surface area.

1.



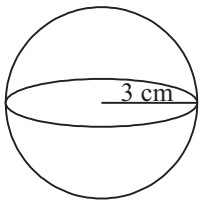
84 in.^{2}

2.



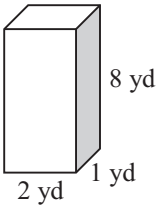
1,032 mm^2

3.



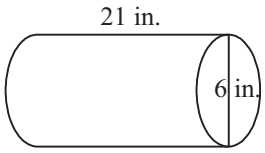
About 113.04 cm^2

4.



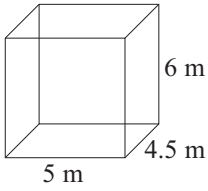
52 yd^2

5.



About 452.16 in.^{2}

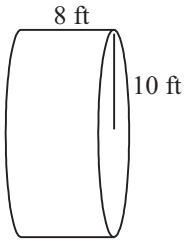
6.



159 m^2

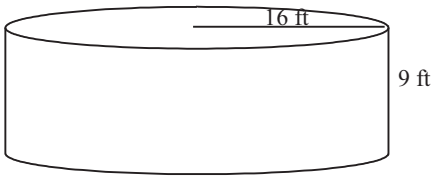
Find the lateral area.

7.



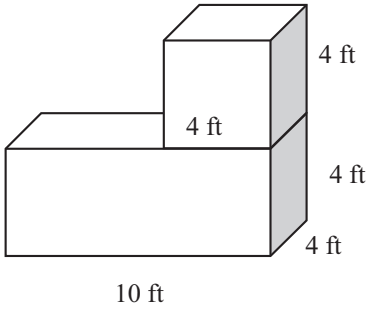
About 502.4 ft^2

8.



About 904.32 ft^2

9. Find the surface area of the figure.



The surface area is 256 ft^2.

10. The surface area of a sphere is 1,017.36 square inches. What is the radius of the sphere?

The radius is about 9 inches.

11. An orange has a diameter of four inches. Estimate the surface area of the orange.

The surface area is about 50.24 in.^{2}

A manufacturer is making labels for soup cans. Each label wraps around the entire lateral surface of a can without overlapping.

12. If each can has a height of 3.5 inches and a radius of 1.5 inches, how much paper is needed to make labels for 10,000 cans?

About 329,700 in.^{2} of paper is needed for labels.

13. About how many square feet of paper are needed to make labels for 10,000 cans?

About 2,289.6 ft^2 of paper is needed for labels.