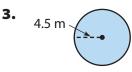
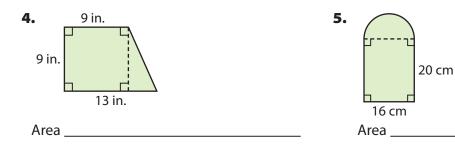
Find the circumference and area of each circle. Round to the nearest hundredth. (Lessons 9.2, 9.3)





Find the area of each composite figure. Round to the nearest hundredth if necessary. (Lesson 9.4)



Volume and Surface Area

ESSENTIAL QUESTION

How can you use volume and surface area to solve real-world problems?

EXAMPLE

MODULE

The height of the figure whose net is shown is 8 feet. Identify the figure. Then find its volume, lateral area, and total surface area.

The figure is a rectangular pyramid.

Volume $=\frac{1}{3}Bh$

Lateral Area

Total Surface Area

= 336

= 384

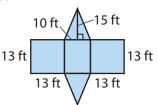
 $=\frac{1}{3}(144)(8)$ $4\left(\frac{1}{2}\right)(12)(8) = 192$ $192 + 12^2 = 192 + 144$

8 ft 12 ft

The volume of the rectangular pyramid is 384 cubic feet, the lateral surface area is 192 square feet, and the total surface area is 336 square feet.

EXERCISES

1. Identify the figure represented by the net. Then find its lateral area and total surface area. (Lesson 10.3)



Key Vocabulary

lateral area (área lateral) lateral faces (cara lateral) net (*plantilla*) pyramid (*pirámide*) total surface area (área de *superficie total*)