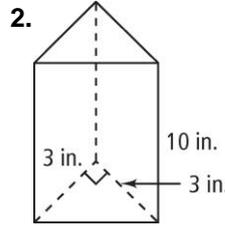
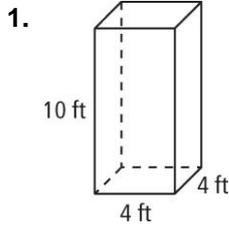


# 11-2 Practice

## Surface Areas of Prisms and Cylinders

Form G

Use a net to find the surface area of each prism. Round your answer to the nearest whole number.

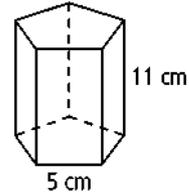


3. a. Classify the prism at the right.

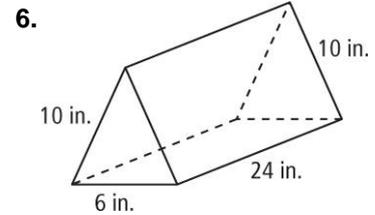
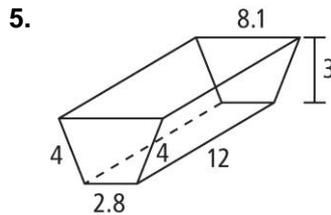
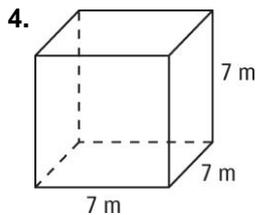
b. The bases are regular pentagons. Find the lateral area of the prism.

c. The area of each is  $43 \text{ cm}^2$ . Find the sum of their areas.

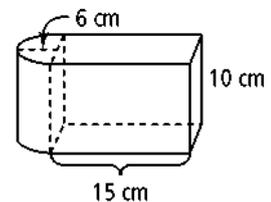
d. Find the surface area of the prism.



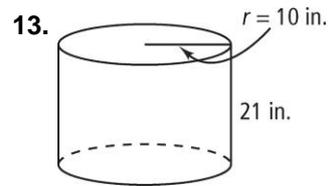
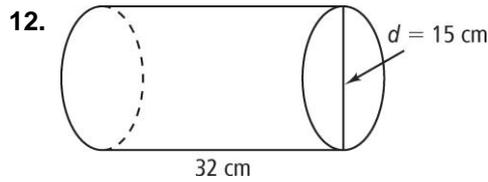
Use formulas to find the lateral area and surface area of each prism. Round your answer to the nearest whole number.



11. Judging by appearances, what is the surface area of the solid shown at the right? Show your answer to the nearest whole number.



**Find the surface area of each cylinder in terms of  $\pi$ .**



15. **a. Reasoning** Suppose that a cylinder has a radius of  $r$  units and a height of  $2r$  units. The lateral area of the cylinder is  $64\pi$  square units. What is the value of  $r$ ?
- b.** What is the surface area of the cylinder? Round your answer to the nearest square unit.

**Visualization** Suppose you revolve the plane region completely about the given line to sweep out a solid of revolution. Describe the solid and find its surface area in terms of  $\pi$ .

16. the  $x$ -axis

17. the  $y$ -axis

18. the line  $x = 3$

