

Name _____

Date _____

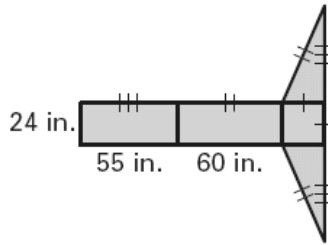
LESSON 12.2

Practice B

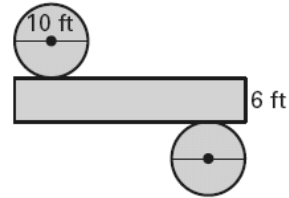
For use with pages 802–809

Find the surface area of the solid formed by the net. Round your answer to two decimal places.

1.

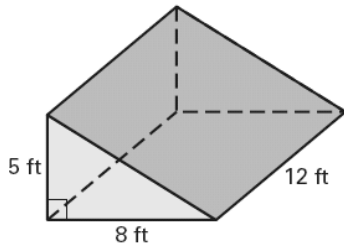


2.

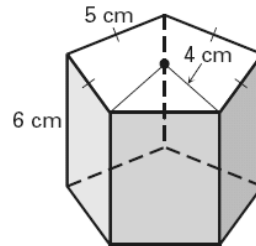


Find the surface area of the right prism. Round your answer to two decimal places.

3.



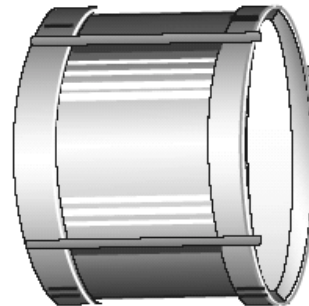
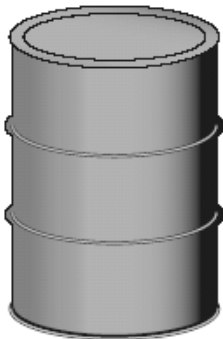
4.



Find the surface area of the right cylinder using the given radius r and height h . Round your answer to two decimal places.

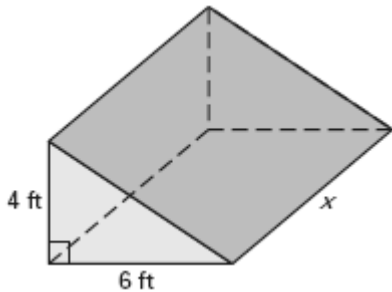
5. $r = 1.1$ ft; $h = 3.2$ ft

6. $r = 12$ in.; $h = 18$ in.

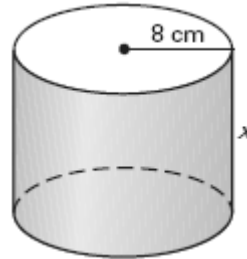


Solve for x given the surface area S of the right prism or right cylinder. Round your answer to two decimal places.

7. $S = 200 \text{ ft}^2$



8. $S = 1000 \text{ cm}^2$



9. **Surface Area of a Prism** A rectangular prism has a base with a width of x units and a height of y units. The depth of the prism is z units. Write the surface area S in terms of x , y , and z .
10. **Surface Area of a Prism** A triangular prism with a right triangular base has one leg length that is 6 inches and the other leg length that is 8 inches. The height of the prism is 7 inches. What is the surface area of the prism?
11. **Surface Area of a Prism** A triangular prism with a scalene triangular base has legs with lengths of 5 inches, 7 inches, and 8 inches. The height of the prism is 10 inches. What is the surface area of the prism?
12. As a birthday present for a friend, you buy a cylindrical box of candy. The diameter of the box is 6 inches and the height is 8 inches. What is the minimum amount of wrapping paper needed to wrap the gift? Round your answer to two decimal places.

