

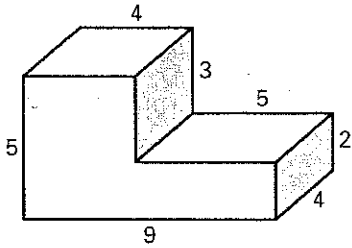
**LESSON**  
**12.4**

**Practice B**

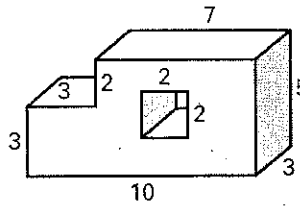
For use with pages 819–825

Find the volume of the solid by determining how many unit cubes are contained in the solid.

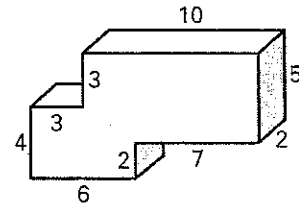
1.



2.

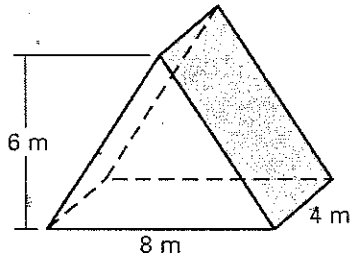


3.

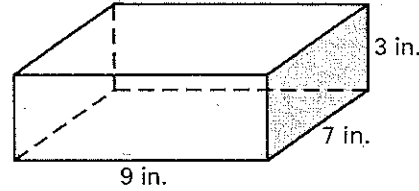


Find the volume of the right prism or right cylinder. Round your answer to two decimal places.

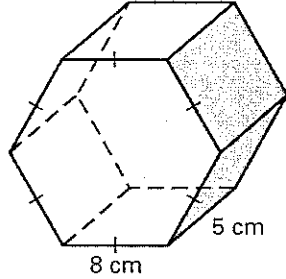
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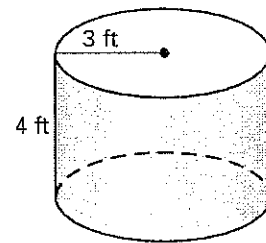
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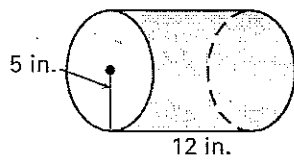
6.



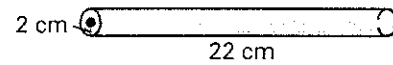
7.



8.

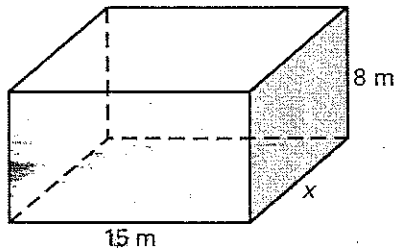


9.

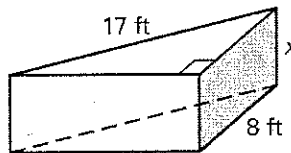


Find the length  $x$  using the given volume  $V$ .

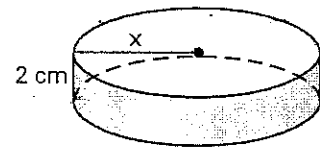
10.  $V = 1440 \text{ m}^3$



11.  $V = 360 \text{ ft}^3$



12.  $V = 72\pi \text{ cm}^3$



12.6 cm

9.  $276.46 \text{ cm}^3$  10. 12 m 11. 6 ft

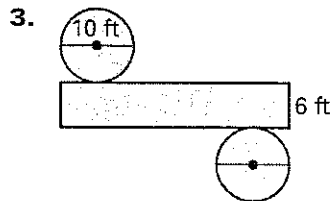
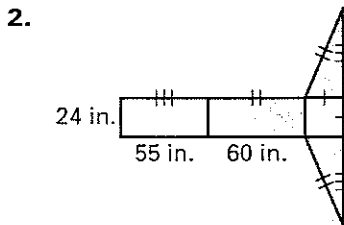
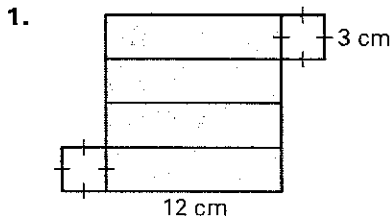
6.  $831.38 \text{ cm}^3$  7.  $113.1 \text{ ft}^3$  8.  $942.48 \text{ in}^3$

3. 136 cubic units 4.  $96 \text{ m}^3$  5.  $189 \text{ in}^3$

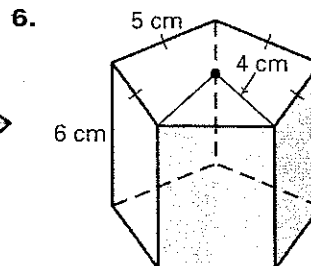
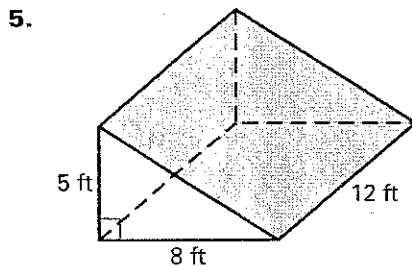
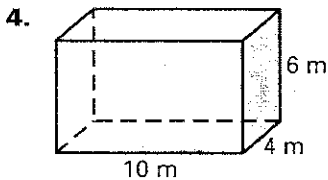
1. 120 cubic units 2. 120 cubic units

**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.



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

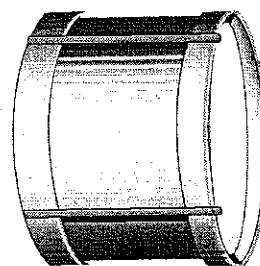
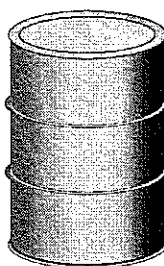
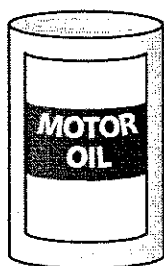


Find the surface area of the right cylinder using the given radius  $r$  and height  $h$ . Round your answer to two decimal places.

7.  $r = 5$  cm;  $h = 15$  cm

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

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

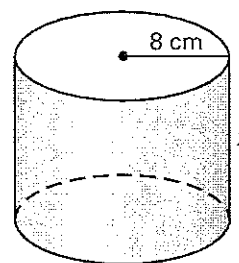
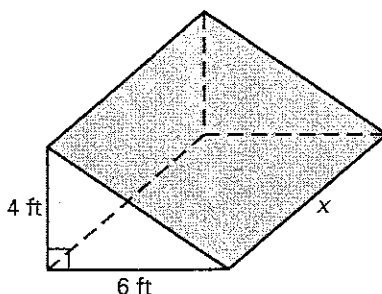
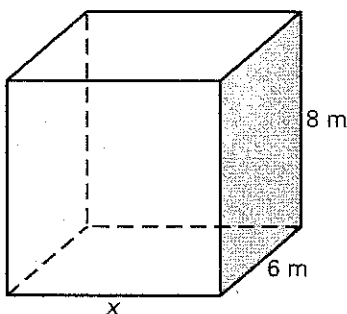


Solve for  $x$  given the surface area  $S$  of the right prism or right cylinder. Round your answer to two decimal places.

10.  $S = 320$  m<sup>2</sup>

11.  $S = 200$  ft<sup>2</sup>

12.  $S = 1000$  cm<sup>2</sup>



1. 162 cm<sup>2</sup> 2. 4656 m<sup>2</sup> 3. 345.58 ft<sup>2</sup>  
4. 248 m<sup>2</sup> 5. 309.21 ft<sup>2</sup> 6. 228.06 cm<sup>2</sup>  
7. 628.32 cm<sup>2</sup> 8. 29.72 ft<sup>2</sup> 9. 2261.95 m<sup>2</sup>  
10. 8 m 11. 10.23 ft 12. 11.89 cm