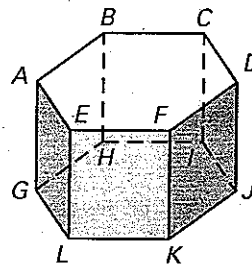


**LESSON 12.2** **Practice A**  
For use with pages 802-809

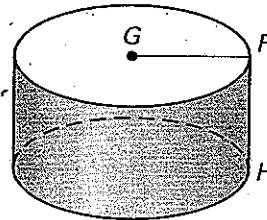
Use the diagram at the right.

1. Give the mathematical name of the solid.
2. What kind of figure is each base?
3. What kind of figure is each lateral face?
4. How many lateral faces does the solid have?
5. Name three lateral edges.



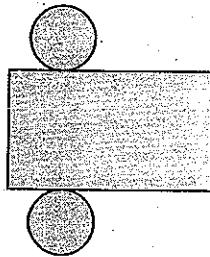
Use the diagram at the right.

6. Give the mathematical name of the solid.
7. What kind of figure is each base?
8. Name the radius of the solid.
9. Name the height of the solid.

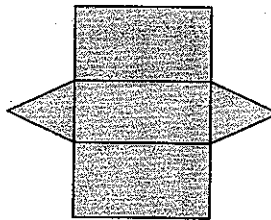


Name the solid that can be formed by the net.

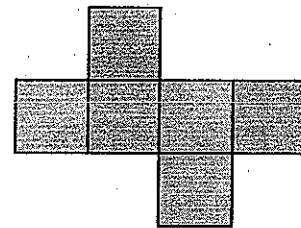
10.



11.



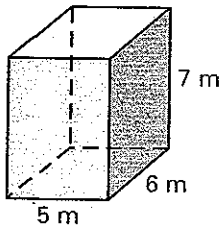
12.



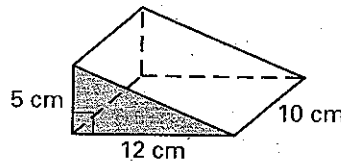
LESSON 12.2

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

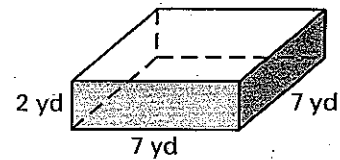
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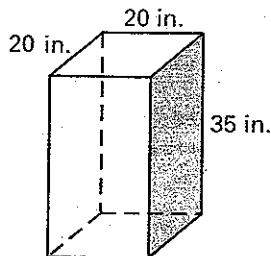
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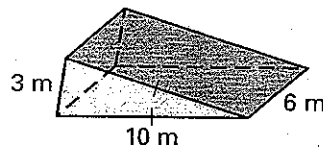
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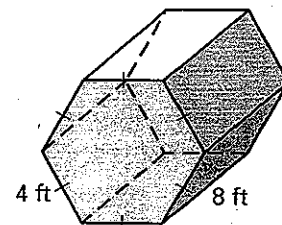
16.



17.



18.



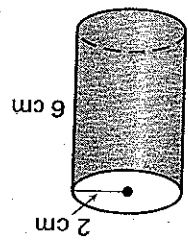
**LESSON 12.2**

**Practice A**

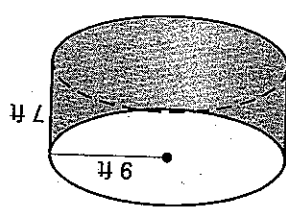
continued

For use with pages 802-809

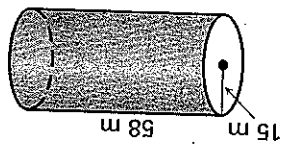
Find the surface area of the right cylinder. Round your answer to two decimal places.



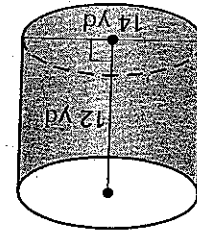
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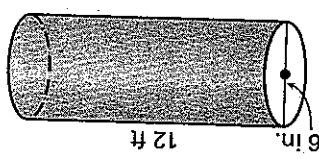
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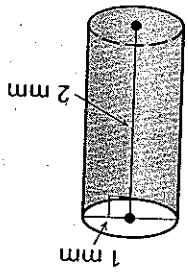
21.



22.



23.



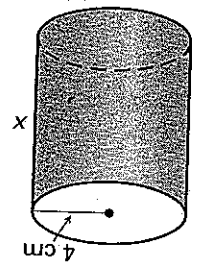
24.

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

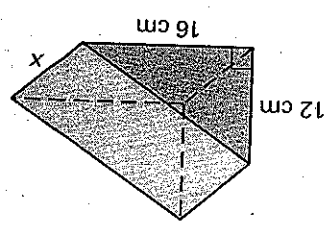
25.  $S = 142 \text{ ft}^2$



26.  $S = 326.73 \text{ cm}^2$



27.  $S = 864 \text{ cm}^2$



28. Find the surface area of a right rectangular prism that has a length of 10 meters, a width of 4 meters, and a height of 7 meters.

29. Find the surface area of a right pentagonal prism with all edges measuring 2 centimeters.

30. The surface area of a cylinder is  $48\pi$  square feet. The radius of the cylinder is 3 feet. What is the height of the cylinder?

31. Find the radius and height of a cylinder with a surface area of  $144\pi$  square millimeters. The radius and height of the cylinder are equal.

Date \_\_\_\_\_

Name \_\_\_\_\_