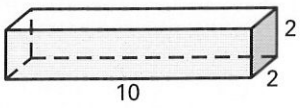
Name _____ Date _____

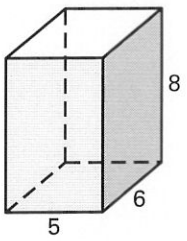
LESSON 11.6

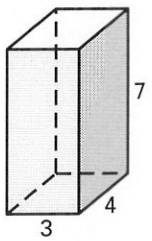
Practice A

For use with the lesson "Volume of Prisms and Cylinders"

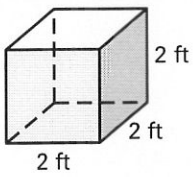
Find the volume of the solid by determining how many unit cubes are contained in the solid.

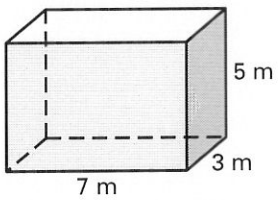
1. 

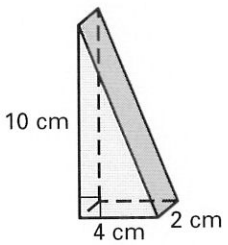
2. 

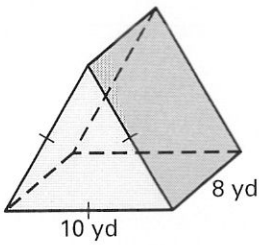
3. 

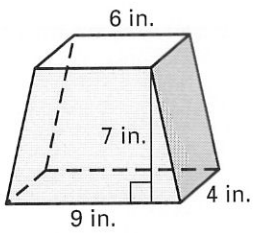
Find the volume of the right prism. Round your answer to two decimal places, if necessary.

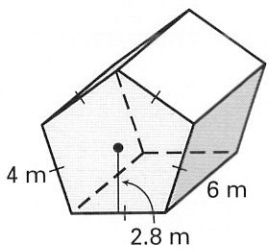
4. 

5. 

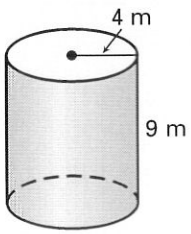
6. 

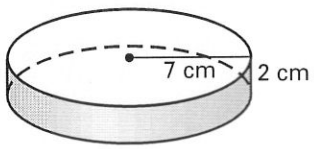
7. 

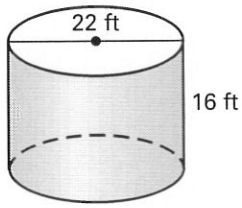
8. 

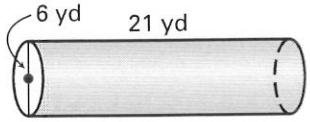
9. 

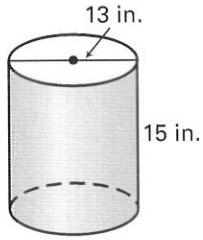
Find the volume of the right cylinder. Round your answer to two decimal places.

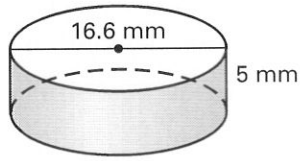
10. 

11. 

12. 

13. 

14. 

15. 

Name _____ Date _____

LESSON 11.6

Practice A *continued*

For use with the lesson "Volume of Prisms and Cylinders"

16. The volume of a cube is 60 cubic yards. Find the side length. Round your answer to two decimal places.

17. The volume of a right cylinder is 3600π cubic centimeters and the height is 16 centimeters. Find the radius.

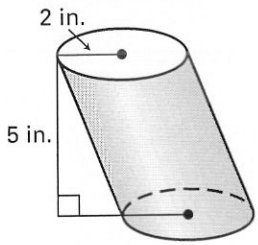
Sketch the described solid and find its volume. Round your answer to two decimal places, if necessary.

18. A rectangular prism has a height of 6 meters, a width of 5 meters, and a length of 10 meters.

19. A right cylinder has a diameter of 4 feet and a height of 8 feet.

Use Cavalieri's Principle to find the volume of the oblique prism or cylinder. Round your answer to two decimal places.

20.



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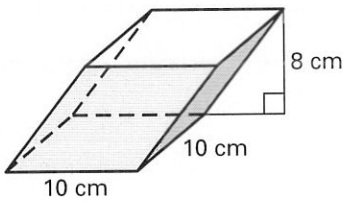
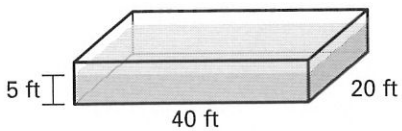
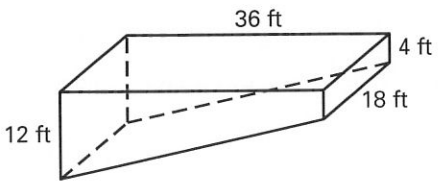


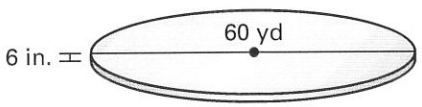
22. Swimming Pool A swimming pool measures 40 feet long by 20 feet wide. The pool is filled to a depth of 5 feet. Find the volume of the water in the pool.



23. Swimming Pool A common design for swimming pools is for the depth to change gradually from the shallow end to the deep end. Use the dimensions shown to find the volume of water the pool can hold.



24. Ice Skating You are ice skating on a circular pond. The layer of ice that covers the pond is approximately 6 inches thick. The pond has a diameter of about 60 yards. What is the approximate volume of the ice? Write your answer in cubic feet.



Not drawn to scale