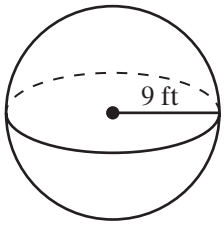
Name _____ Class _____ Date _____

Practice 10-9

Volume: Pyramids, Cones, and Spheres

Find the volume of each figure to the nearest cubic unit.

1.



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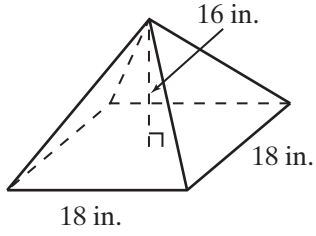
2.



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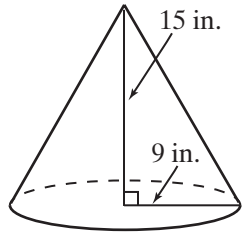
3.



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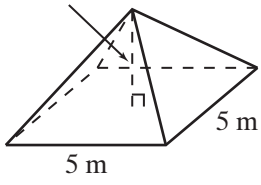
4.



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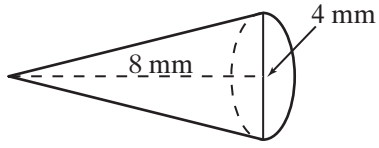
5.



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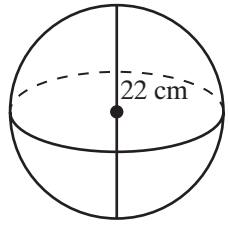
6.



_____

7. square-based pyramid
$s = 9$ in.
$h = 12$ in.

_____

8. cone
$r = 8$ cm
$h = 15$ cm

_____

9. sphere
$r = 6$ in.

_____

10. You make a snow figure using three spheres with radii of 12 in., 10 in., and 8 in., with the biggest on the bottom and the smallest for the head. You get snow from a rectangular area that is 6 ft by 7 ft.

a. Find the volume of snow in your snow figure to the nearest hundredth of a cubic inch.

bottom: _____ middle: _____

head: _____ total: _____

b. Find the area in square inches from which you get snow.

_____

c. How deep does the snow need to be before you have enough snow to make a figure? State your answer to the nearest $\frac{1}{4}$ in.

_____