Name _____ Date _____ Class _____

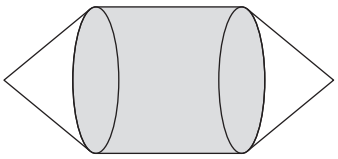
CHAPTER 10

At-Home Practice

Volume

Tell which shape can be cut up into cones, cylinders, spheres, hemispheres or some combination of these.

1.



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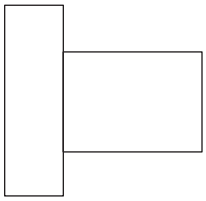
2.



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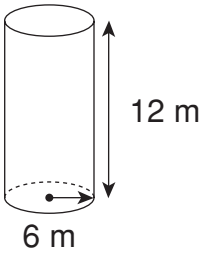
Calculate the volume of the prism or cylinder to the nearest tenth. Use 3.14 for π.

3.



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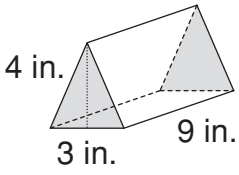
4.



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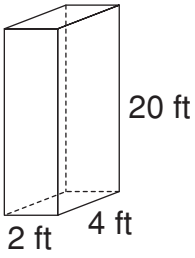
5.



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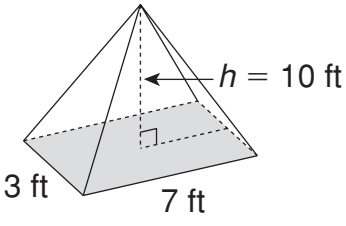
Find the volume of each pyramid, cone, or sphere. Use 3.14 for π.

6.



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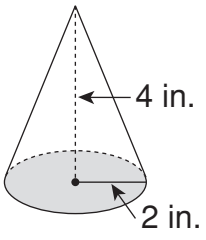
7.



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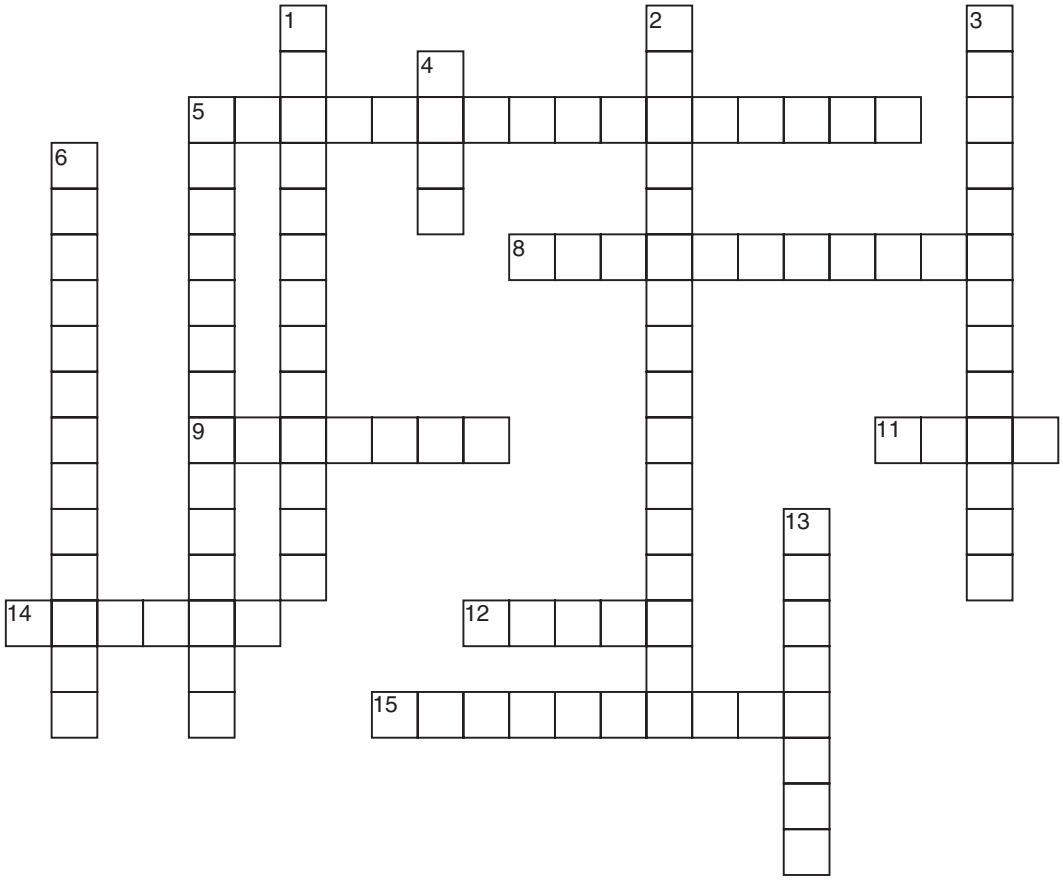
Answers: 1. 2 cones, cylinder 2. None 3. 1,356.5 m^3 4. 54 in^3 5. 160 ft^3 6. 70 ft^3 7. 16.7 in^3

Name _____ Date _____ Class _____

CHAPTER 10

Family Fun

Puzzle



Across

5. the circular faces of a cylinder
8. the circular face of a cone
9. a polyhedron that has a vertex and a face at opposite ends, with the remaining faces being triangles
11. the surface of a polyhedron
12. a polyhedron that has two parallel congruent faces, with the remaining faces being parallelograms
14. the number of cubes a three-dimensional object can hold
15. three-dimensional figure

Down

1. the two parallel congruent faces of a prism
2. one-third the area of its base times the height of a pyramid
3. one-third the area of its base times the height of a cone
4. has one circular face and a curved lateral surface
5. the face opposite the vertex of a pyramid
6. where the lateral surface comes to a point
13. has two congruent circular faces connected by a curved surface

Answers: Across 5. bases of a cylinder 8. base of a cone 9. pyramid 11. face 12. prism 14. volume 15. polyhedron Down 1. bases of a prism 2. volume of a pyramid 3. volume of a cone 4. cone 5. base of a pyramid 6. vertex of a cone 13. cylinder