


13.2 Independent Practice

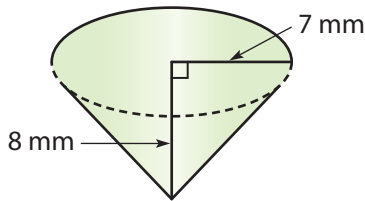
COMMON CORE 8.G.9



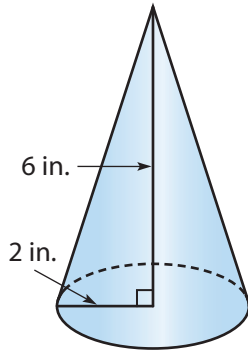
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Find the volume of each cone. Round your answers to the nearest tenth if necessary. Use 3.14 for π .

8.



9.



10. A cone has a diameter of 6 centimeters and a height of 11.5 centimeters.

11. A cone has a radius of 3 meters and a height of 10 meters.

Round your answers to the nearest tenth if necessary. Use 3.14 for π .

12. Antonio is making mini waffle cones. Each waffle cone is 3 inches high and has a radius of $\frac{3}{4}$ inch. What is the volume of a waffle cone?

13. A snack bar sells popcorn in cone-shaped containers. One container has a diameter of 8 inches and a height of 10 inches. How many cubic inches of popcorn does the container hold?

14. A volcanic cone has a diameter of 300 meters and a height of 150 meters. What is the volume of the cone?

15. **Multistep** Orange traffic cones come in a variety of sizes. Approximate the volume, in cubic inches, of a traffic cone that has a height of 2 feet and a diameter of 10 inches. Use 3.14 for π .

Find the missing measure for each cone. Round your answers to the nearest tenth if necessary. Use 3.14 for π .

16. radius = _____

height = 6 in.

volume = 100.48 in³

17. diameter = 6 cm

height = _____

volume = 56.52 cm³

18. The diameter of a cone-shaped container is 4 inches, and its height is 6 inches. How much greater is the volume of a cylinder-shaped container with the same diameter and height? Round your answer to the nearest hundredth. Use 3.14 for π .
