Name _____ Class _____ Date _____

13.1 Independent Practice

FL 8.G.3.9

Personal Math Trainer
Online Assessment and Intervention.
Independent Practice

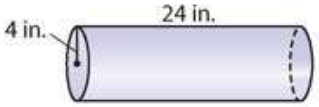
Selected Answers
See all the selected answers.

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

6.

_____

7.



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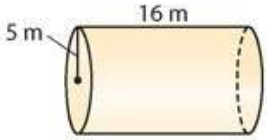

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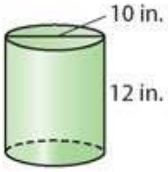


_____

10. A cylinder has a radius of 4 centimeters and a height of 40 centimeters.

_____

11. A cylinder has a radius of 8 meters and a height of 4 meters.

_____

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

12. The cylindrical Giant Ocean Tank at the New England Aquarium in Boston is 24 feet deep and has a radius of 18.8 feet. Find the volume of the tank.

_____

13. A standard-size bass drum has a diameter of 22 inches and is 18 inches deep. Find the volume of this drum.

_____

14. Grain is stored in cylindrical structures called silos. Find the volume of a silo with a diameter of 11.1 feet and a height of 20 feet.

_____

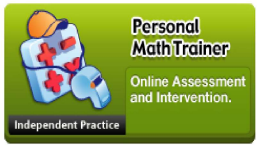
15. The Frank Erwin Center, or "The Drum," at the University of Texas in Austin can be approximated by a cylinder that is 120 meters in diameter and 30 meters in height. Find its volume.

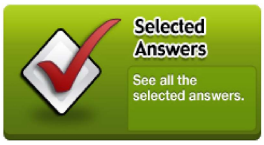
_____

Name _____ Class _____ Date _____

13.2 Independent Practice

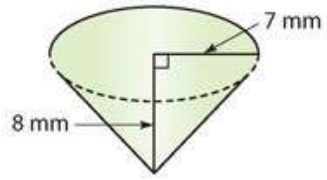
FL 8.G.3.9





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

8.



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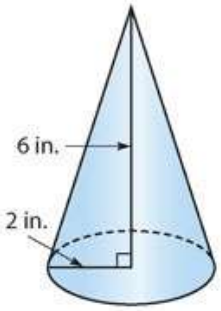

_____

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 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 in^3

17. diameter = 6 cm

height = _____

volume = 56.52 cm^3

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.

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