

Independent Practice

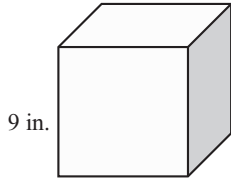
13.5

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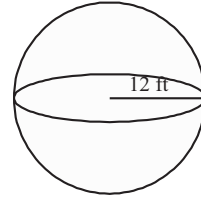
Module 13 Perimeter, Area, and Volume
Lesson 5 Volume: Prisms, Cylinders, and Spheres

Find the volume.

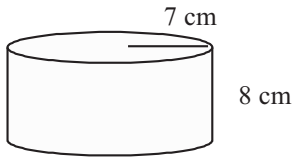
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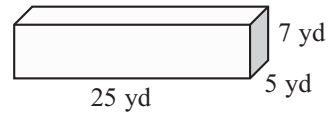
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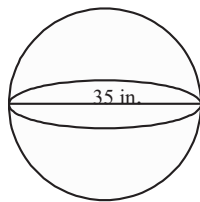
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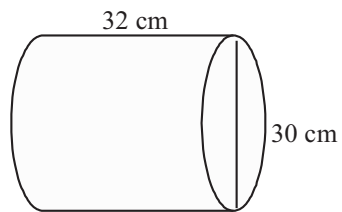
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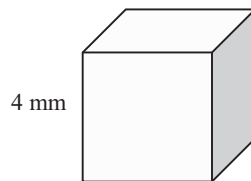


7. The volume of a cube is 125 ft^3 . What is the length of a side of the cube?

8. A cereal box measures 3 in. by 8 in. by 10 in. What is the volume of the cereal box?

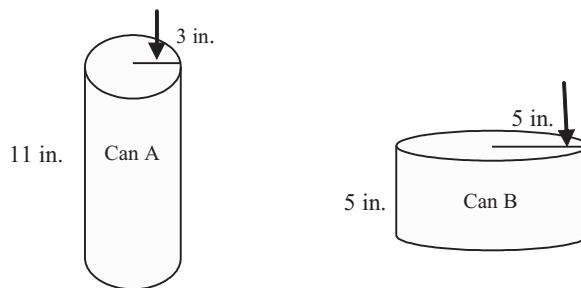
9. A cylinder has a volume of about $4,710 \text{ ft}^3$ and a radius of 10 ft. What is the approximate height of the cylinder?

10. All the lengths of the sides of the cube below are doubled. How many times greater is the volume of the new cube than the original cube?



11. A rectangular storage bin has a volume of 2,310 cubic inches. The bin is 22 inches long and 15 inches wide. What is the height of the bin?

12. Which of the cans below has the lesser volume? How much less volume?



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Module 13 Perimeter, Area, and Volume
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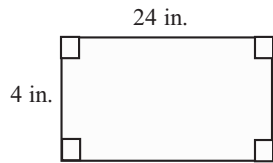
Journal

1. Explain how to use unit cubes to find the volume of a cube with a side length of 10 units. Then, tell how to find the volume by using a formula.
2. How is the formula for finding the volume of a rectangular prism similar to the formula for finding the volume of a cylinder?
3. Explain how to find volume of a sphere if you are given the diameter of the sphere.

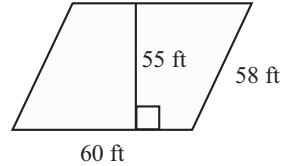
Cumulative Review

Find the area and perimeter.

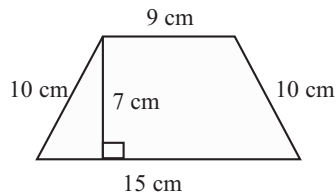
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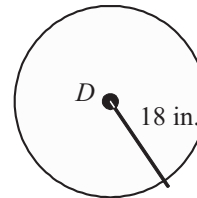
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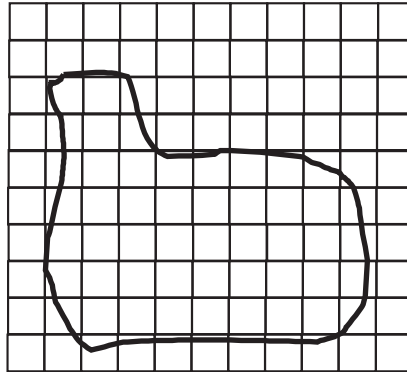
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4. Circle *D*



5. Estimate the area of the shape.
Each \square is 1 mi^2 .



6. Find the surface area of the cylinder.

