LESSON 18.3 More Practice

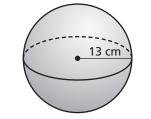
20 cm



Find the volume of each figure. Round your answer to the nearest tenth.

2.

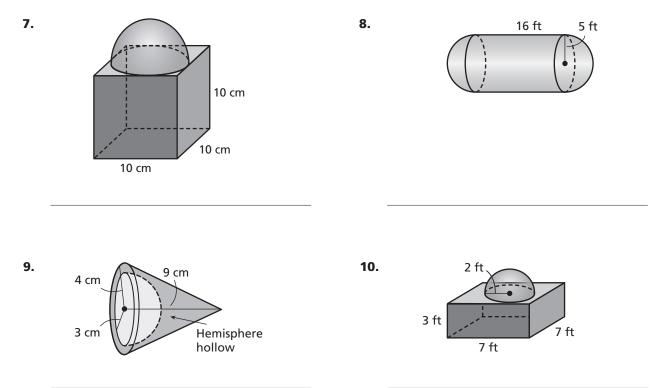
1.



**3.** a sphere with a radius of 7 feet

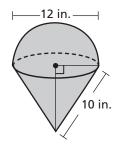
- **4.** a sphere with a diameter of 18 inches
- **5.** a sphere with a diameter of 12 meters
- **6.** a hemisphere with a diameter of 8 feet

## Find the volume of each composite figure. Round your answer to the nearest tenth.

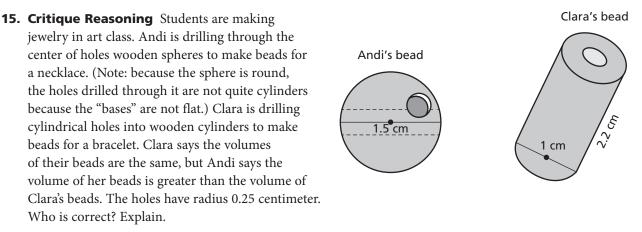


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**11. Math on the Spot** Find the volume of the composite figure. Round to the nearest cubic inch.



- **12. Reason** The diameter of Earth's moon is about 2159 miles. Like Earth, it is nearly spherical. Use the information given in Example 2 to estimate how many moons could fit inside Earth.
- **13.** Tyler is designing a bouncy object for his toy manufacturing company. The object consists of a cube with hemispheres protruding from each face. The side length of the cube and the diameters of the hemispheres all measure 6 inches. What is the volume of the object to the nearest cubic inch?
- **14.** A cylindrical container holds three tennis balls, each with a radius of 3.3 centimeters. The radius of the container is 3.5 centimeters, and the length is 20.2 centimeters. What is the volume of the empty space in the container to the nearest tenth?



- **16.** Patrick has to calculate the volume of 16 hemispheres with the same radius. To simplify the calculations, he computes the volume of one sphere with the given radius. By what number does Patrick need to multiply the volume of the sphere to determine the total volume?
  - A 2
    B 4
    D 16