

Real-Life Application: When Will I Ever Use This?

For use with pages 759–765

The Peachoid

Off Interstate 85 in Gaffney, South Carolina, there is a large spherical water tank shaped and painted to look like a peach. It was built in 1980–81. Although peaches are often associated with Georgia, South Carolina produces more peaches, and Gaffney is home of the South Carolina Peach Festival. The peach-shaped water tank called the “Peachoid” holds one million gallons of water.



In Exercises 1–3, use the information above.

1. Find the radius, diameter, and circumference of the Peachoid in feet. One gallon is equal to 0.1337 cubic feet. Round your results to two decimal places.
2. Find the surface area.
3. The company that made the steel framework for the Peachoid had an agreement with the city of Gaffney that they would not build another peachoid for fifteen years. Now, there is a peachoid tank off Interstate 65 in Clanton, Alabama. It only holds a half-million gallons. How does the radius of the Clanton tank compare to the radius of the tank in Gaffney?