# Volume of a Sphere

Name:_____          Date:_____

To find the volume of a sphere $(V = \frac{4}{3}\pi r^3)$

1) Balls come in several different sizes. One of the balls has a diameter of 22 inches. What is the volume of the ball?

_____

2) Emily measures the diameter of a ball as 24 centimeters. How many cubic centimeters of air can the ball hold?

_____

3) A spherical-shaped advertising balloon has a radius of 23 inches. Find the volume of a balloon?

_____

4) A sphere has a radius of 9 millimeters. What is the volume?

_____

5) An orange has a diameter of 22 centimeters. Find the radius of orange?

_____

# Volume of a Sphere

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To find the volume of a sphere $(V = \frac{4}{3}\pi r^3)$

1) Balls come in several different sizes. One of the balls has a diameter of 22 inches. What is the volume of the ball?

   5575.28 in³

2) Emily measures the diameter of a ball as 24 centimeters. How many cubic centimeters of air can the ball hold?

   7238.23 cm³

3) A spherical-shaped advertising balloon has a radius of 23 inches. Find the volume of a balloon?

   50965.01 in³

4) A sphere has a radius of 9 millimeters. What is the volume?

   3053.63 mm³

5) An orange has a diameter of 22 centimeters. Find the radius of orange?

   11 cm