

SPHERE

A sphere is a 3-D shape that is completely round, like a ball.



To find the volume of a sphere, we need the radius (r) from the center of the sphere to the surface.



$$V_{\text{sphere}} = \frac{4}{3}\pi r^3$$

$$V_{\text{sphere}} = \frac{4}{3}\pi (r)^3$$

$$V_{\text{sphere}} = \frac{4}{3}\pi (r^3)$$

This is the formula for the volume of a sphere.

Plug in the

PREVIEW

radius, simplify the

multiply the remaining numbers by 4/3 and leave in terms of pi.

PREVIEW

Guided Practice

Check answers at the bottom.

1) Find the volume of this cone:

$$V_{\text{cone}} = \frac{1}{3}\pi r^2 h$$

$$V = \frac{1}{3}\pi (r)^2 (h)$$

$$V = \frac{1}{3}\pi (r^2 h)$$

2) Find the volume of this cylinder:

$$V_{\text{cylinder}} = \pi r^2 h$$

$$V = \pi (r)^2 (h)$$

$$V = \pi (r^2 h)$$

3) Find the volume of this sphere:

$$V_{\text{sphere}} = \frac{4}{3}\pi r^3$$

$$V = \frac{4}{3}\pi (r)^3$$

$$V = \frac{4}{3}\pi (r^3)$$

Independent Practice

Find the volume of each shape.



Answers to Reteach and Guided Practice

1) $V = \frac{1}{3}\pi r^2 h$
 $V = \frac{1}{3}\pi (3)^2 (4)$
 $V = \frac{1}{3}\pi (9 \cdot 4)$
 $V = \frac{1}{3}\pi (36)$
 $V = 12\pi$
12

2) $V = \pi r^2 h$
 $V = \pi (3)^2 (4)$
 $V = \pi (9 \cdot 4)$
 $V = \pi (36)$
 $V = 36\pi$
36

3) $V = \frac{4}{3}\pi r^3$
 $V = \frac{4}{3}\pi (3)^3$
 $V = \frac{4}{3}\pi (27)$
 $V = \frac{4}{3}\pi (27)$
 $V = 36\pi$
36

4) $V = \pi r^2 h$
 $V = \pi (3)^2 (4)$
 $V = \pi (9 \cdot 4)$
 $V = \pi (36)$
 $V = 36\pi$
36

5) $V = \frac{1}{3}\pi r^2 h$
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6) $V = \frac{4}{3}\pi r^3$
 $V = \frac{4}{3}\pi (3)^3$
 $V = \frac{4}{3}\pi (27)$
 $V = \frac{4}{3}\pi (27)$
 $V = 36\pi$
36

Lesson Reteach Volume Of Cylinders

Liying Dong



Lesson Reteach Volume Of Cylinders:

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